

Appendix A
RF Test Data for BT V5.0(DSS) (Conducted Measurement)
Product Name: Headphone
Trade Mark: SuperEQ
Test Model: S1

Environmental Conditions

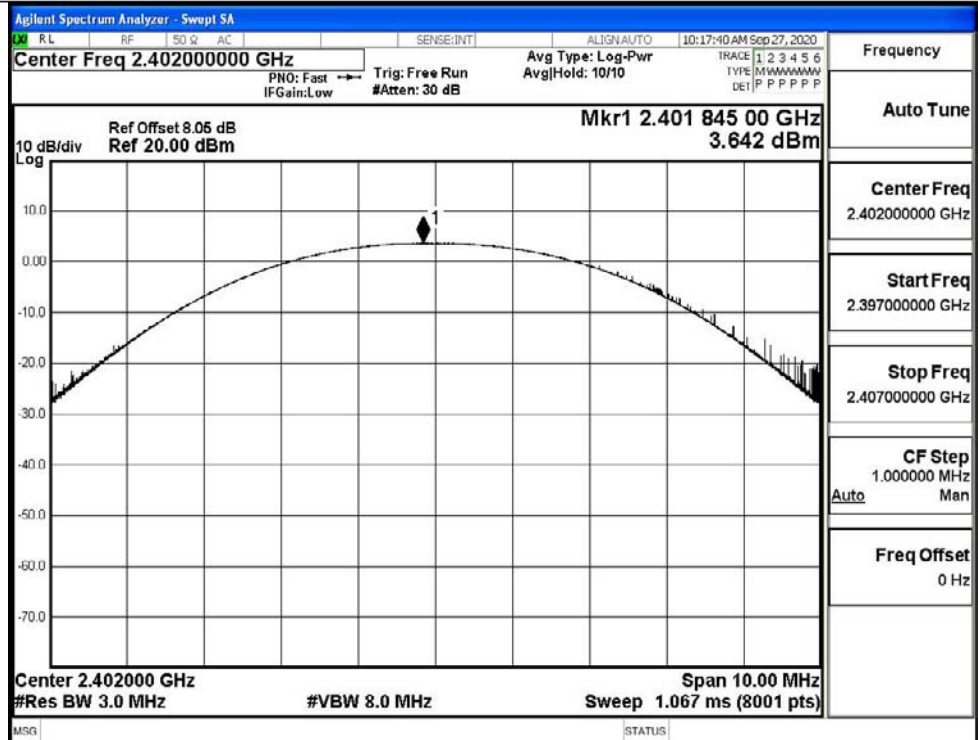
Temperature:	23.4 ° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

A.1 Maximum Conducted Peak Output Power

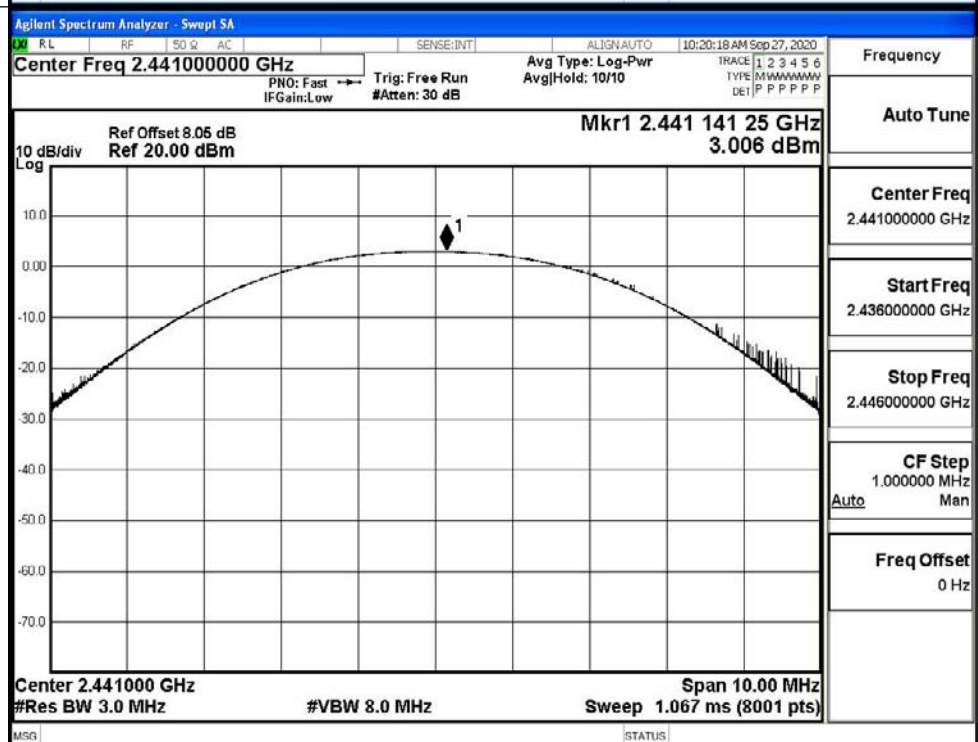
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	3.642	21	PASS
	MCH	3.006	21	PASS
	HCH	2.606	21	PASS
$\pi/4$ DQPSK	LCH	3.633	21	PASS
	MCH	3.025	21	PASS
	HCH	2.654	21	PASS
8DPSK	LCH	3.695	21	PASS
	MCH	3.024	21	PASS
	HCH	2.604	21	PASS

Test Graphs

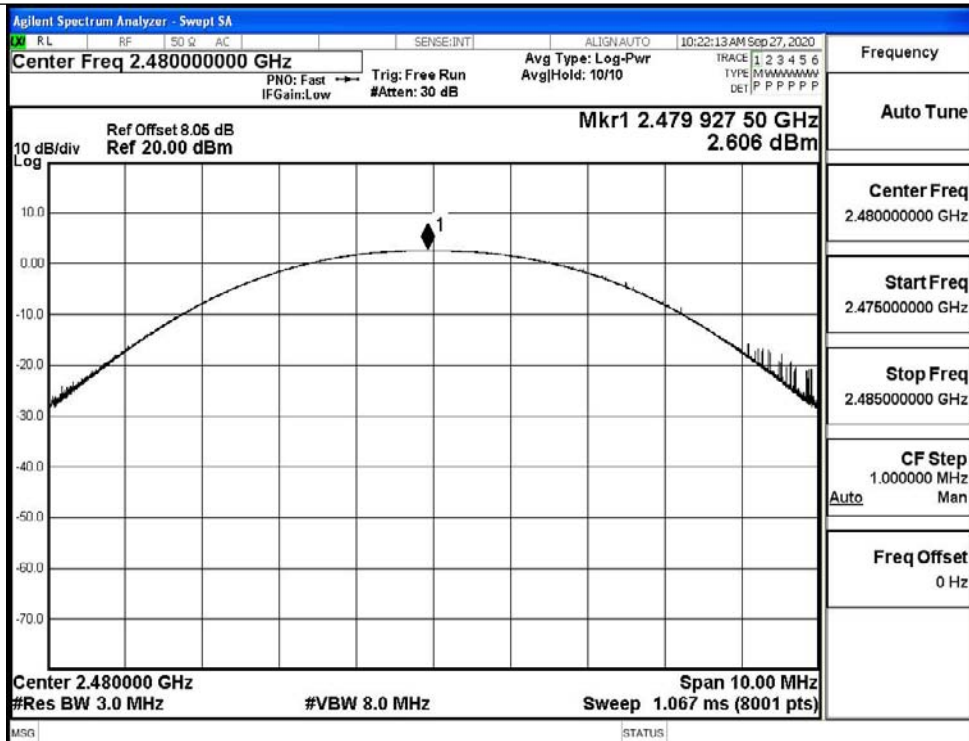
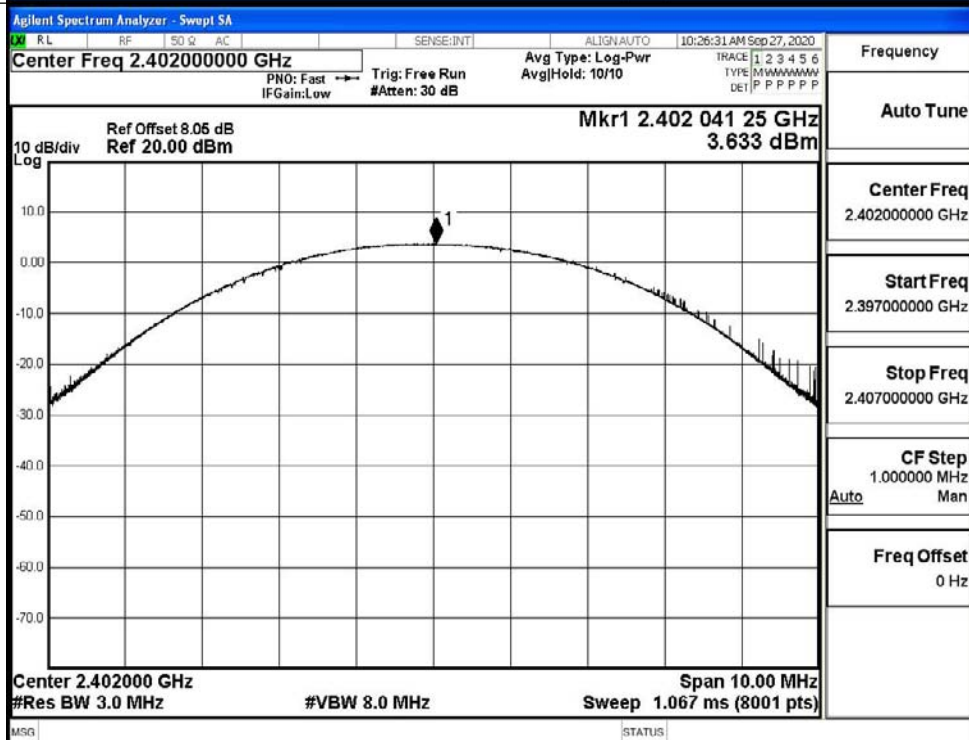
GFSK/LCH

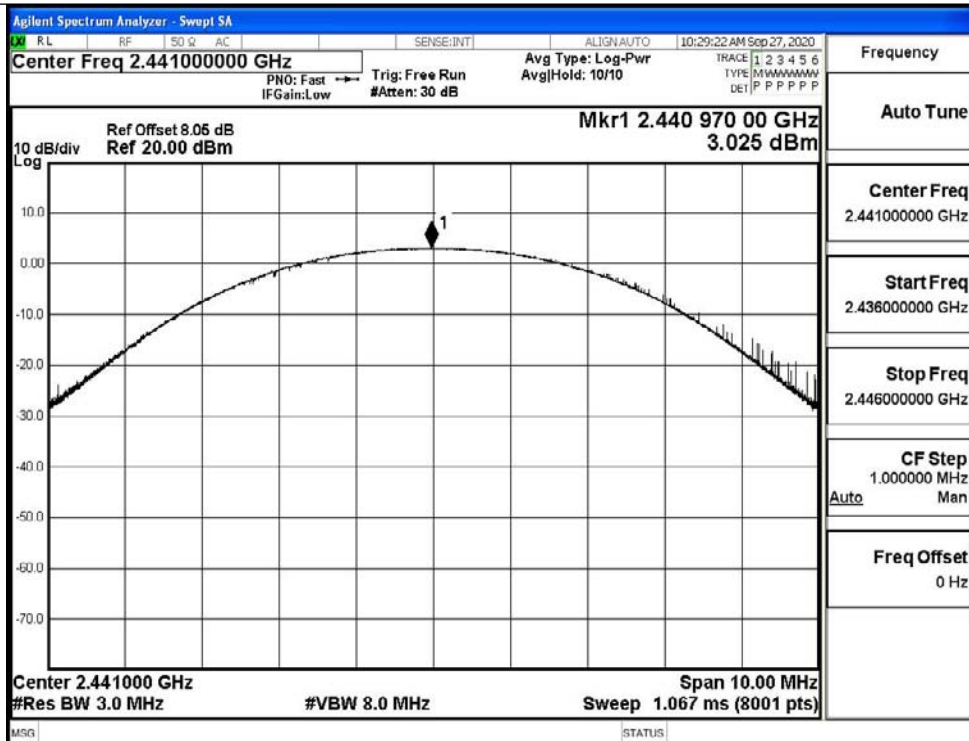
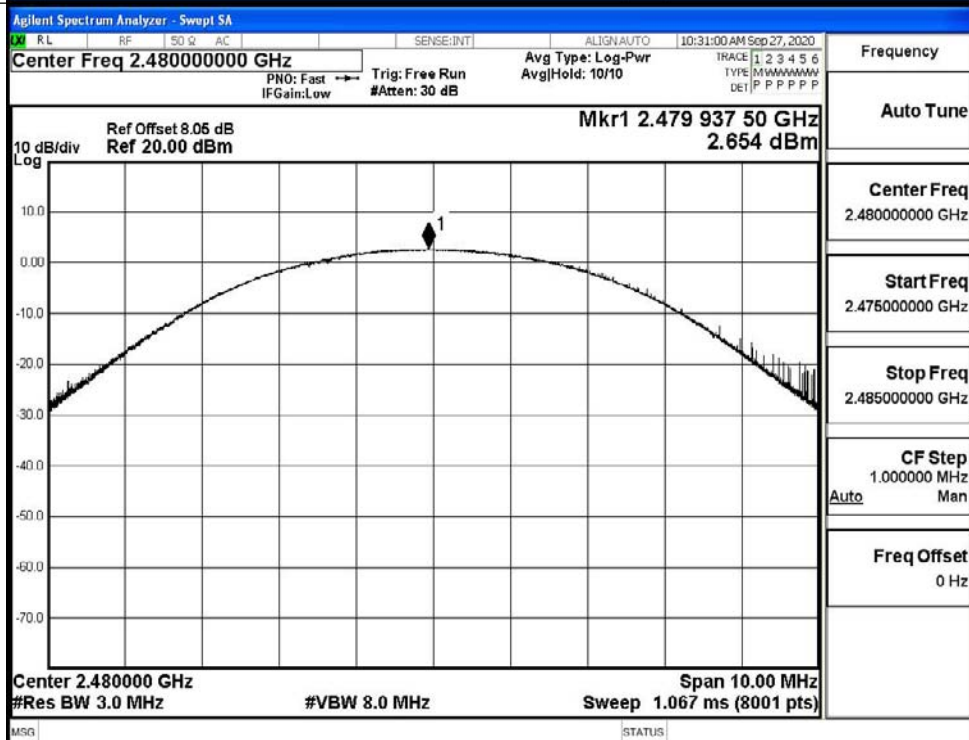


GFSK/MCH

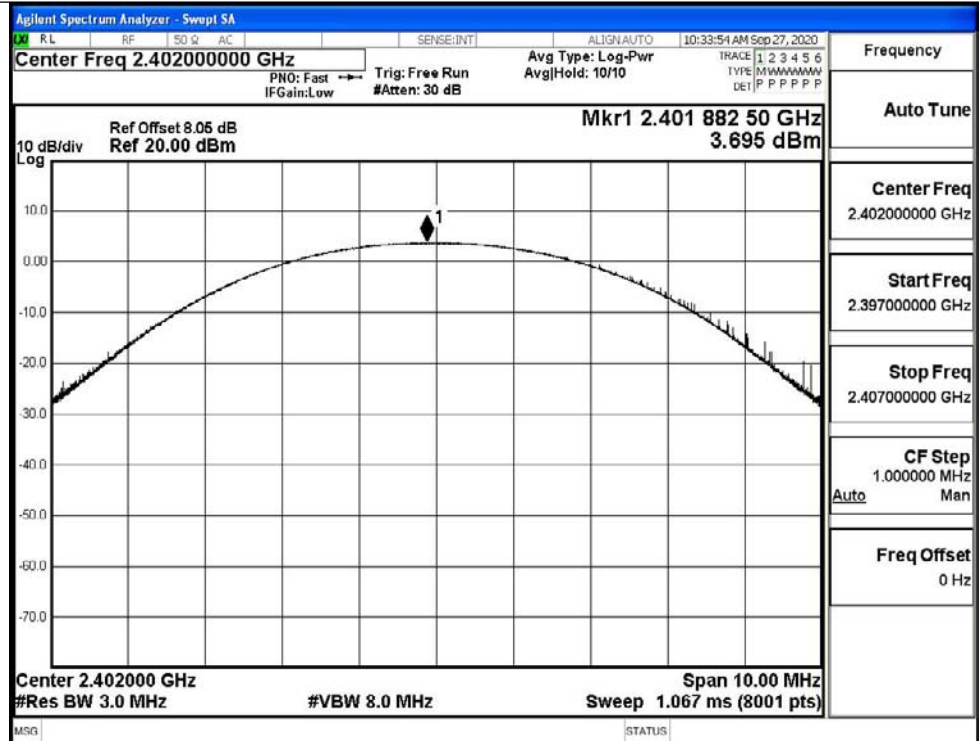


GFSK/HCH

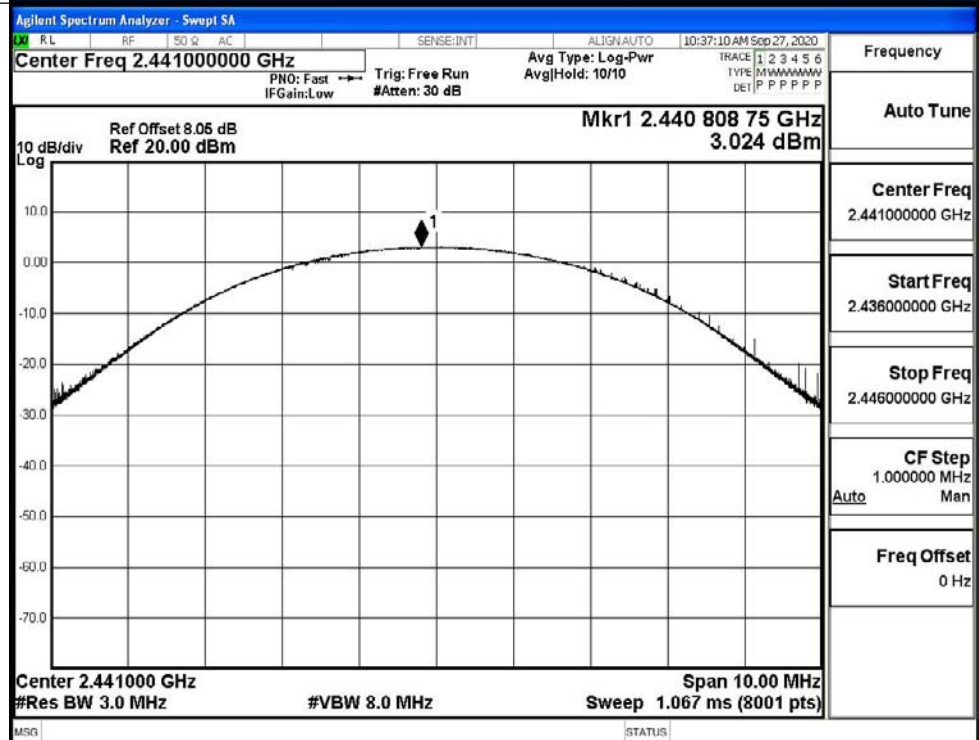
 $\pi/4$ DQPSK/LCH

$\pi/4$ DQPSK/MCH $\pi/4$ DQPSK/HCH

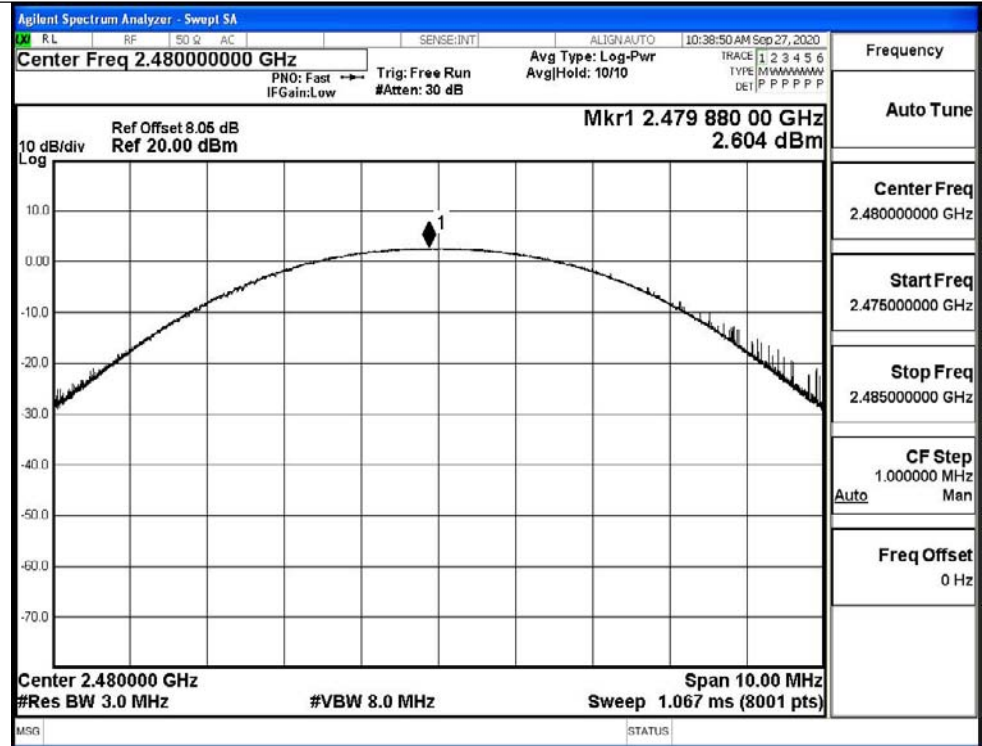
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

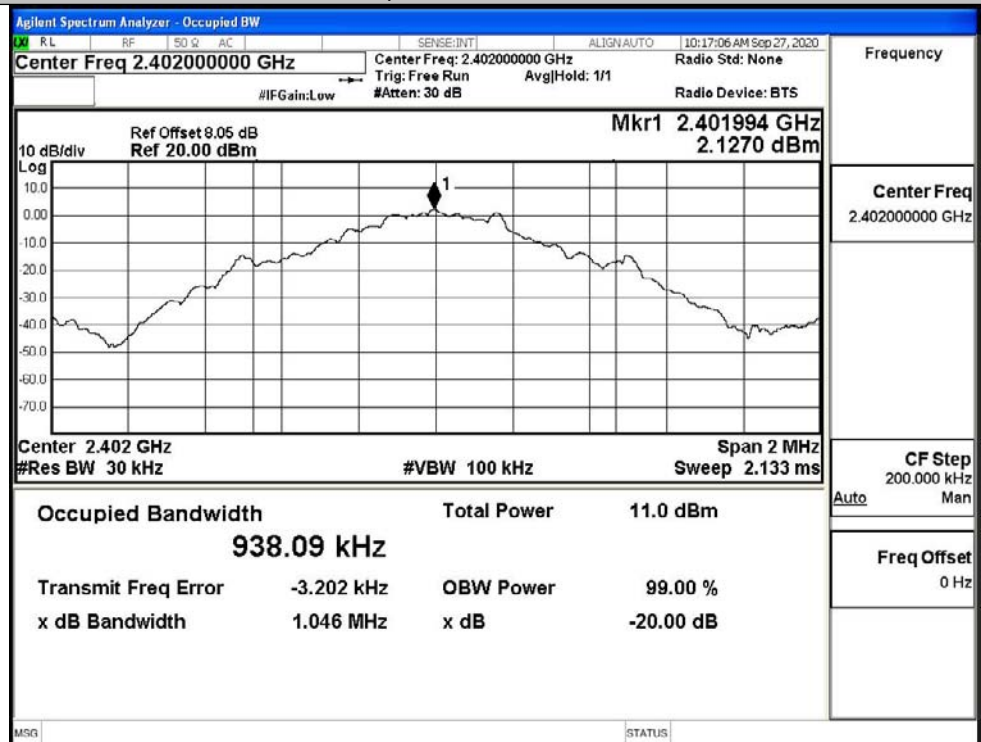


A.2 20dB Bandwidth

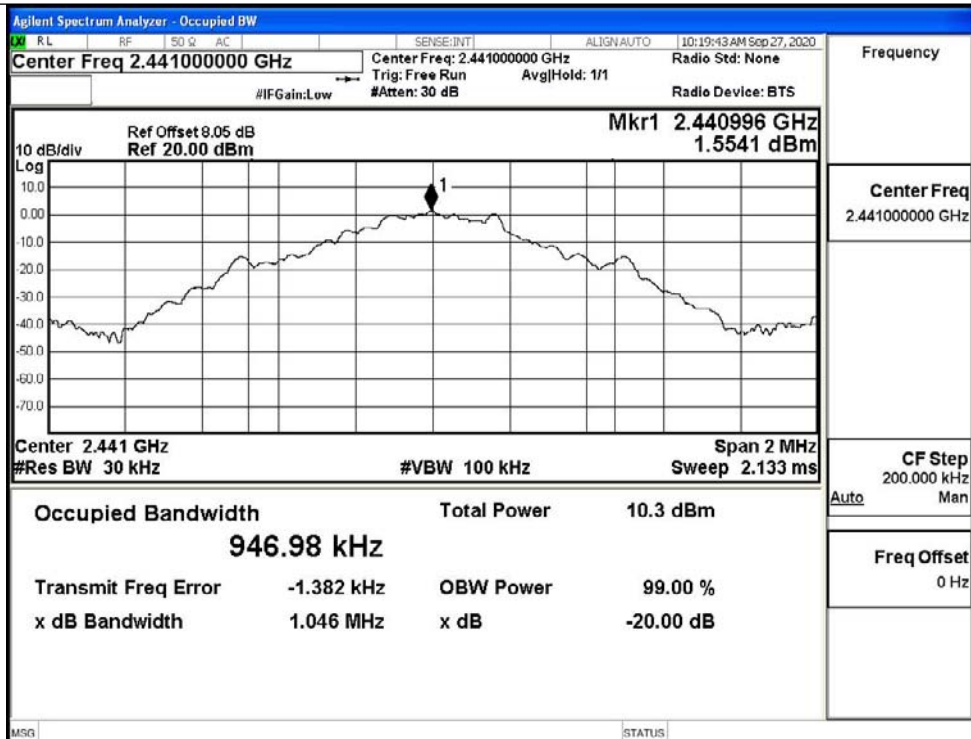
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.046	Not Specified	PASS
	MCH	1.046	Not Specified	PASS
	HCH	1.044	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.194	Not Specified	PASS
	MCH	1.192	Not Specified	PASS
	HCH	1.192	Not Specified	PASS
8DPSK	LCH	1.241	Not Specified	PASS
	MCH	1.238	Not Specified	PASS
	HCH	1.201	Not Specified	PASS

Test Graphs

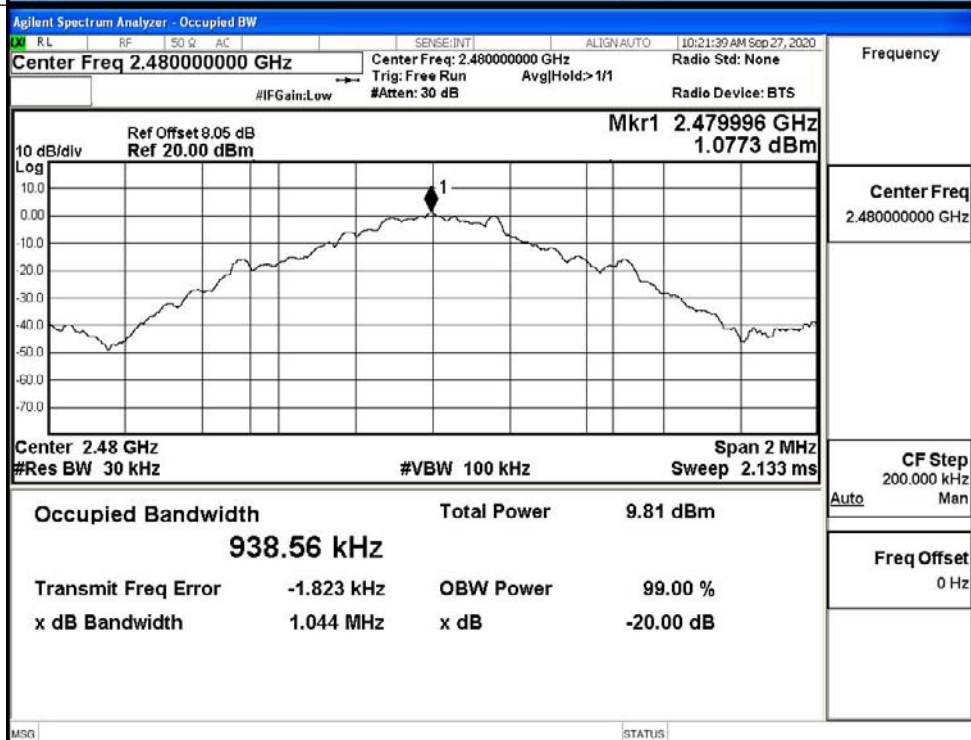
GFSK/LCH

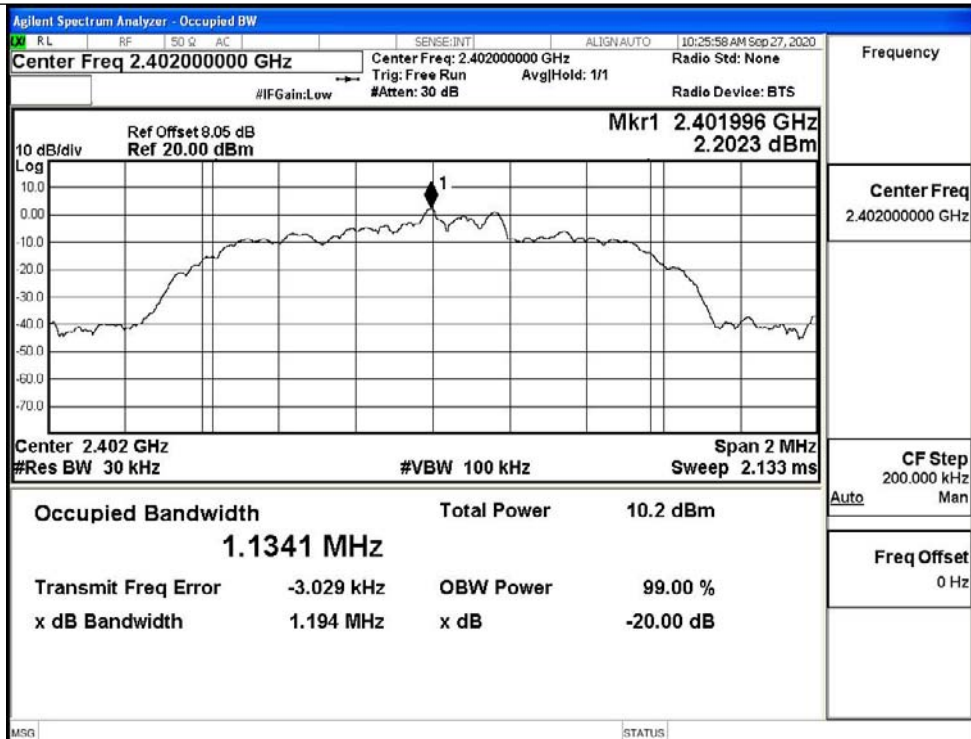
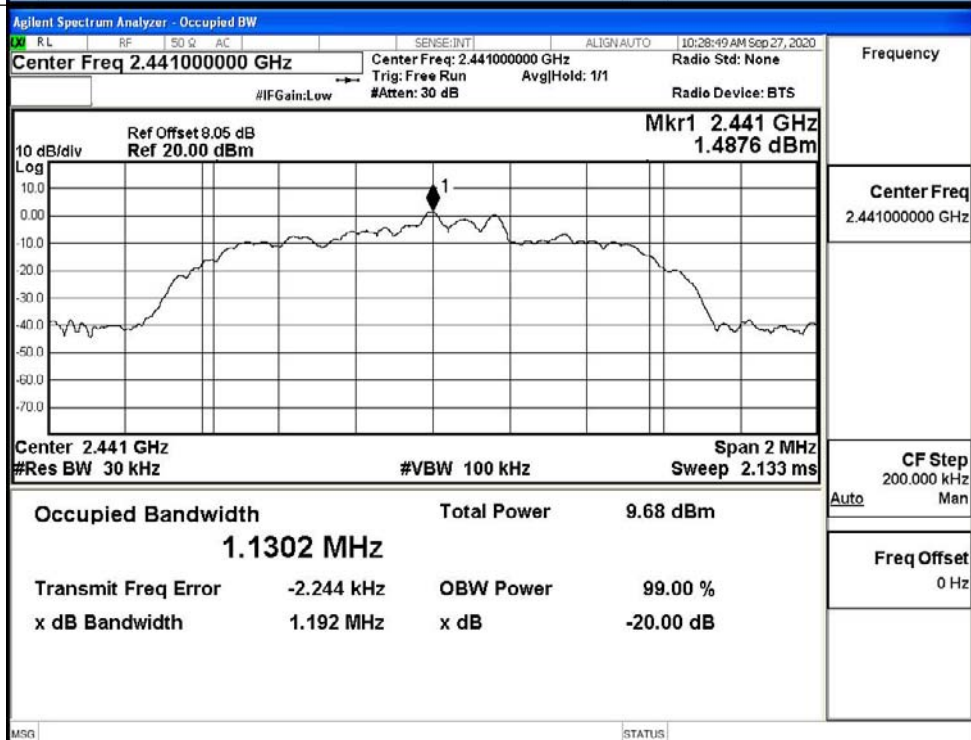


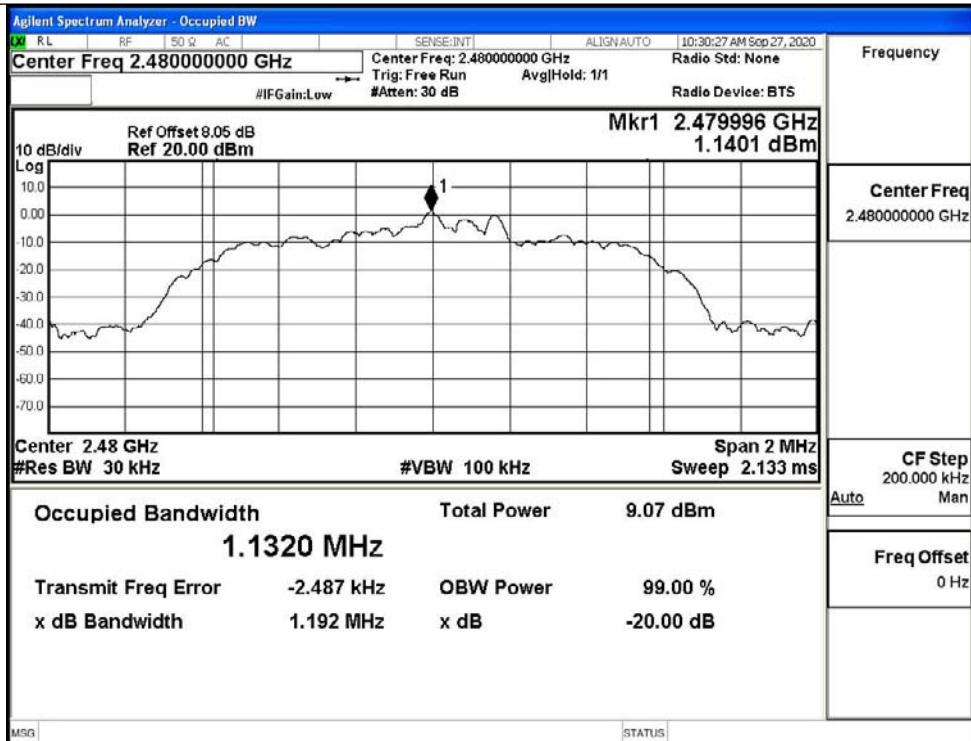
GFSK/MCH



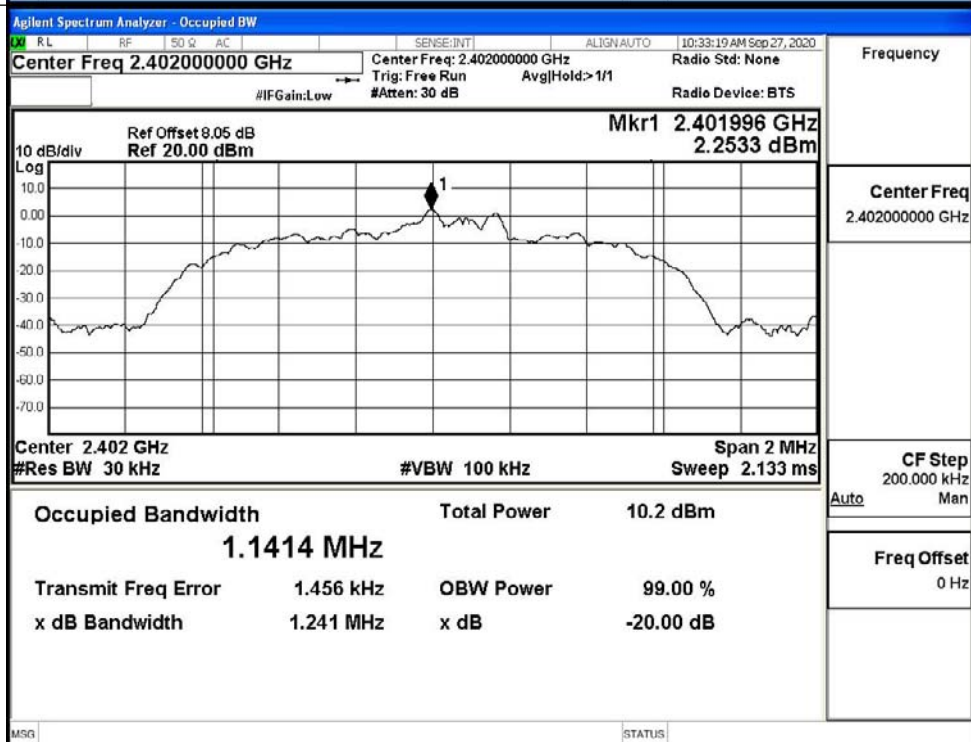
GFSK/HCH



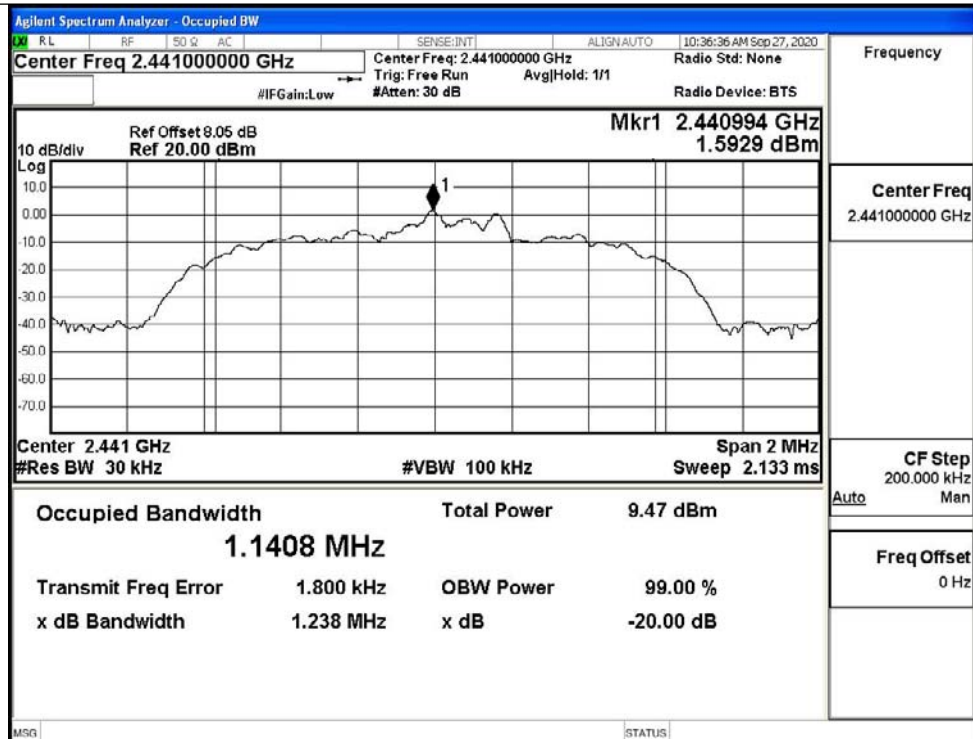
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

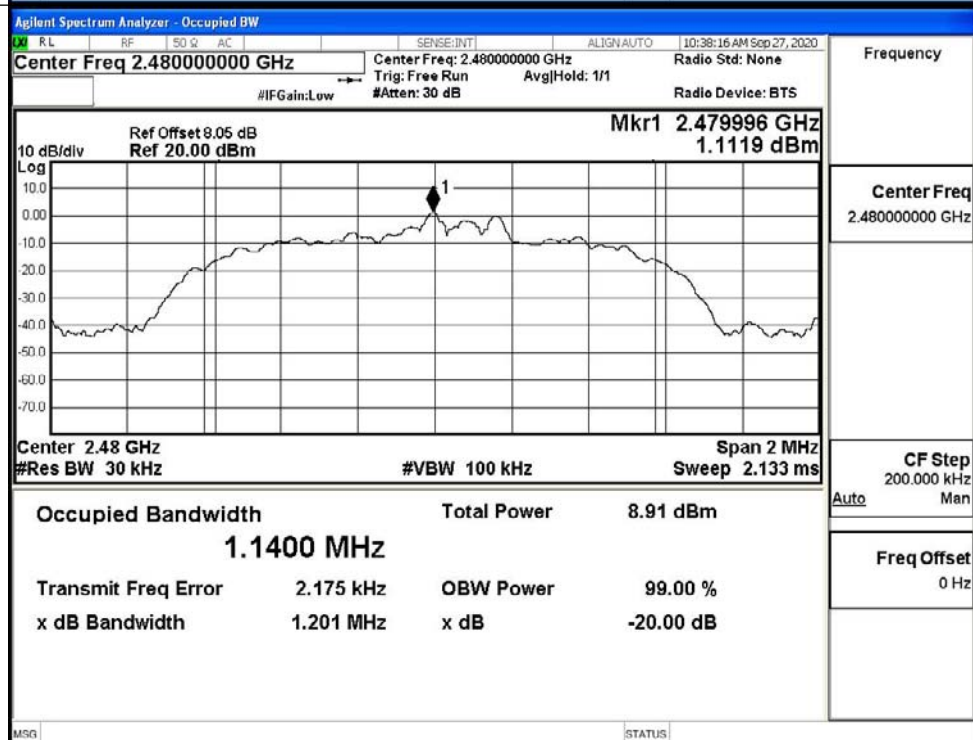
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

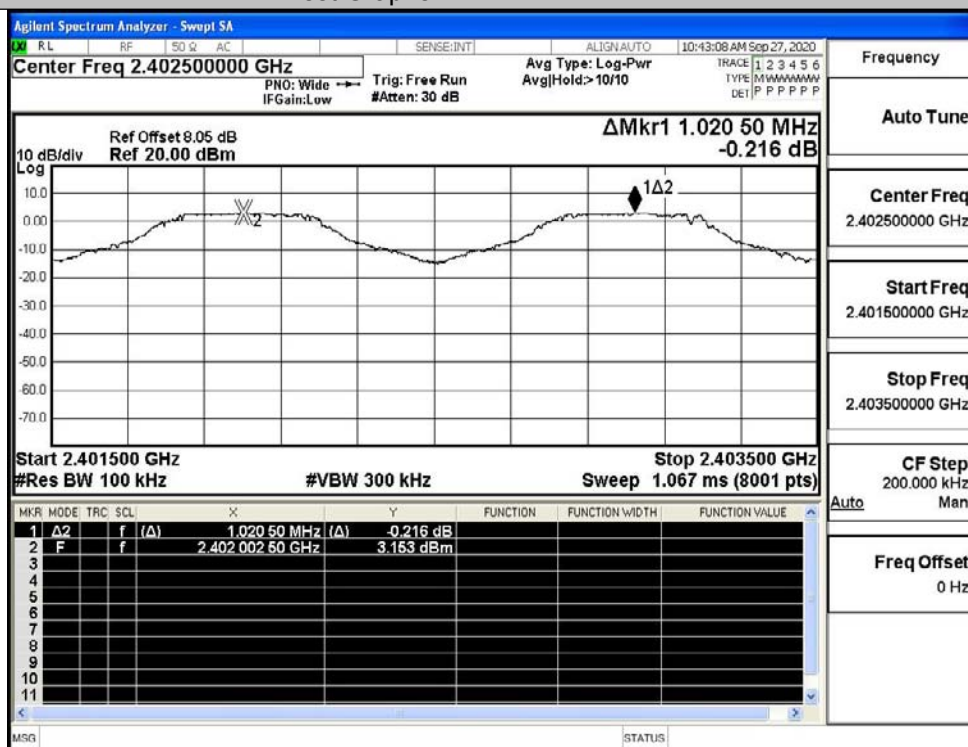


A.3 Carrier Frequency Separation

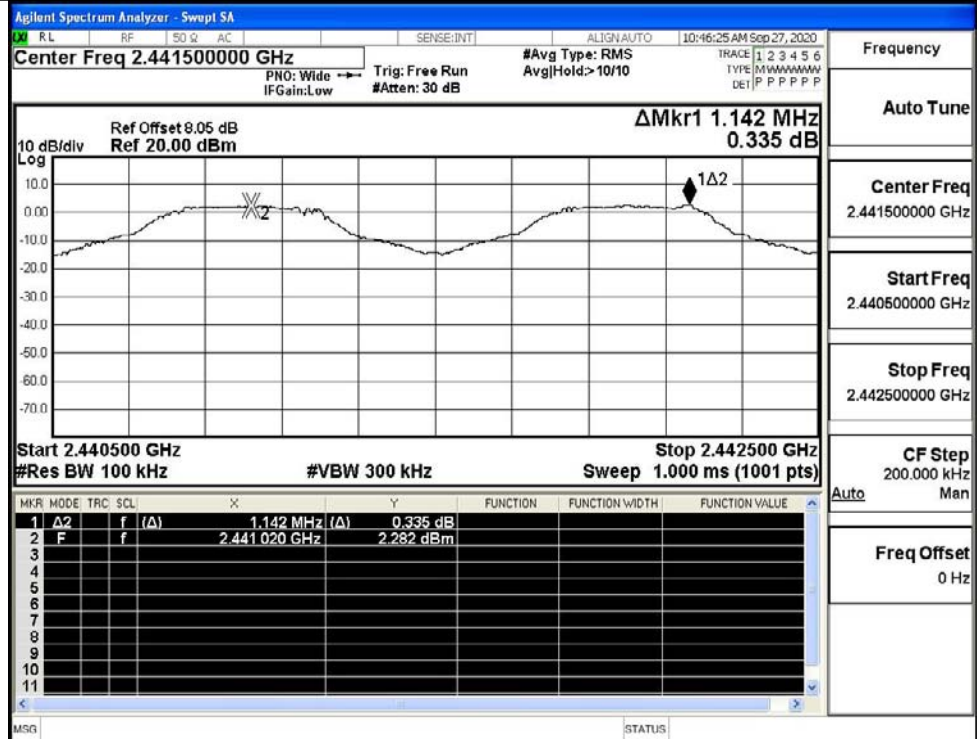
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.021	0.697	PASS
	MCH	1.142	0.697	PASS
	HCH	1.004	0.697	PASS
$\pi/4$ DQPSK	LCH	1.010	0.796	PASS
	MCH	1.160	0.796	PASS
	HCH	0.900	0.796	PASS
8DPSK	LCH	1.010	0.827	PASS
	MCH	1.062	0.827	PASS
	HCH	1.006	0.827	PASS

Test Graphs

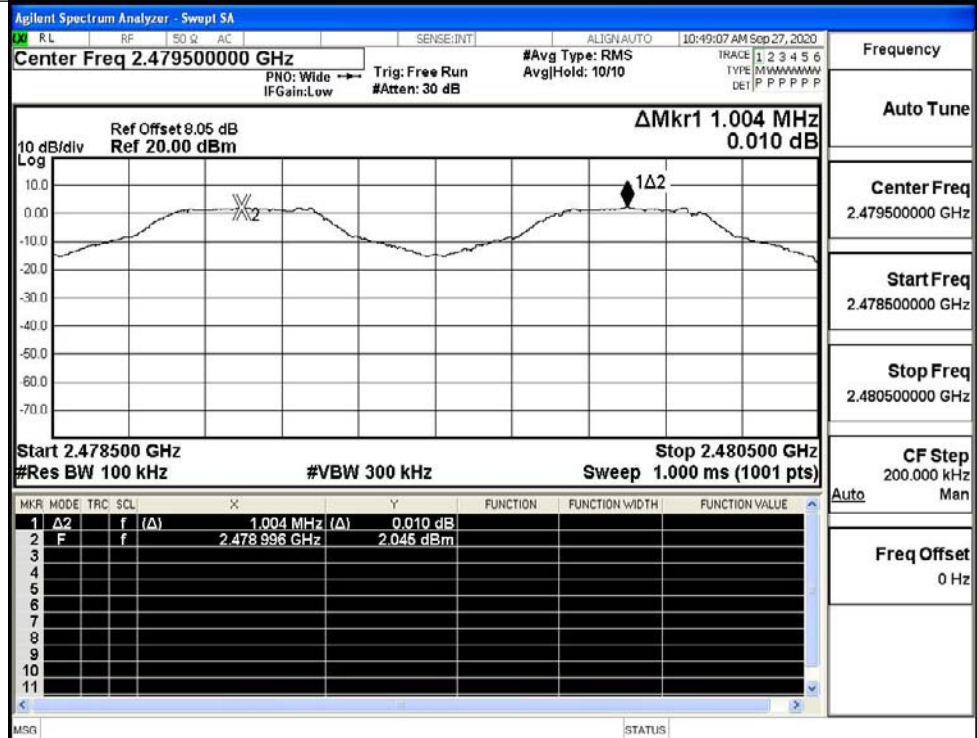
GFSK/LCH

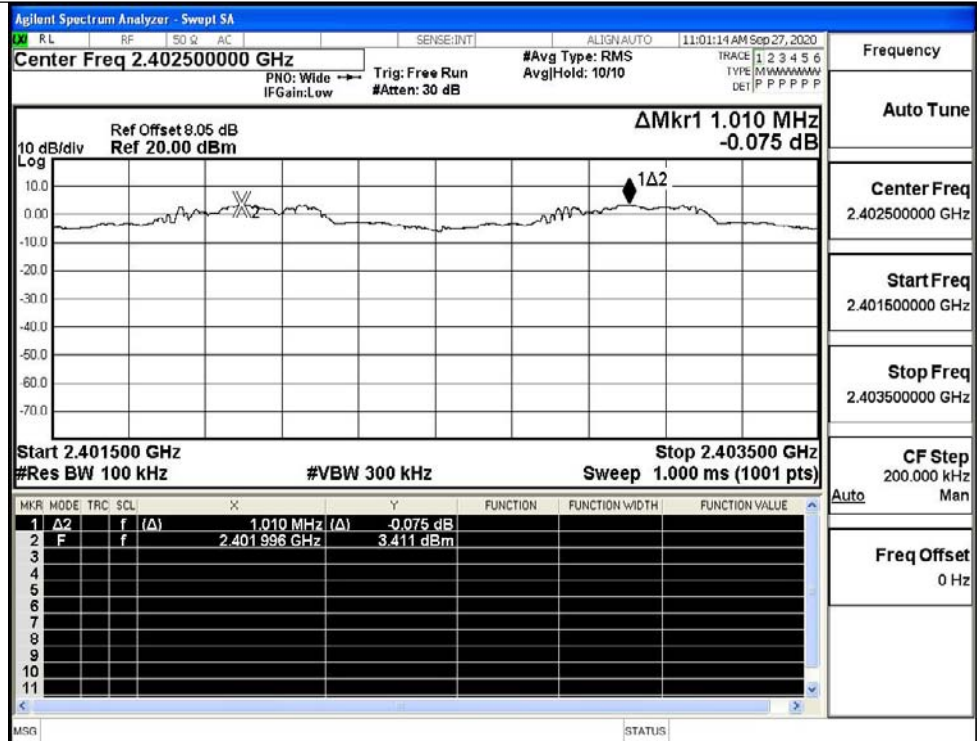
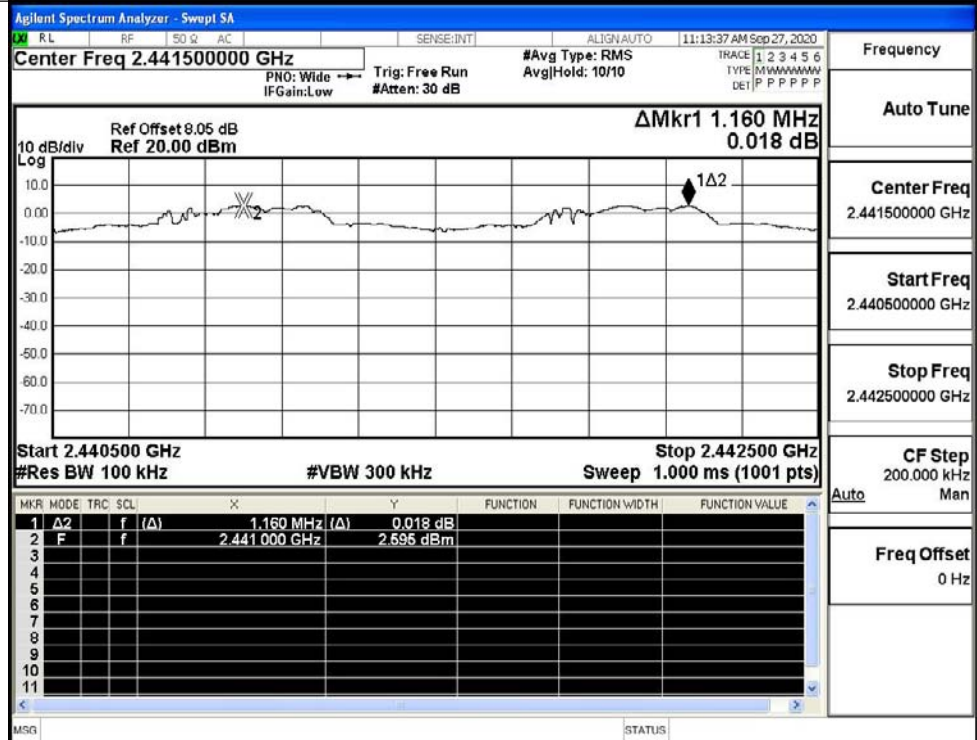


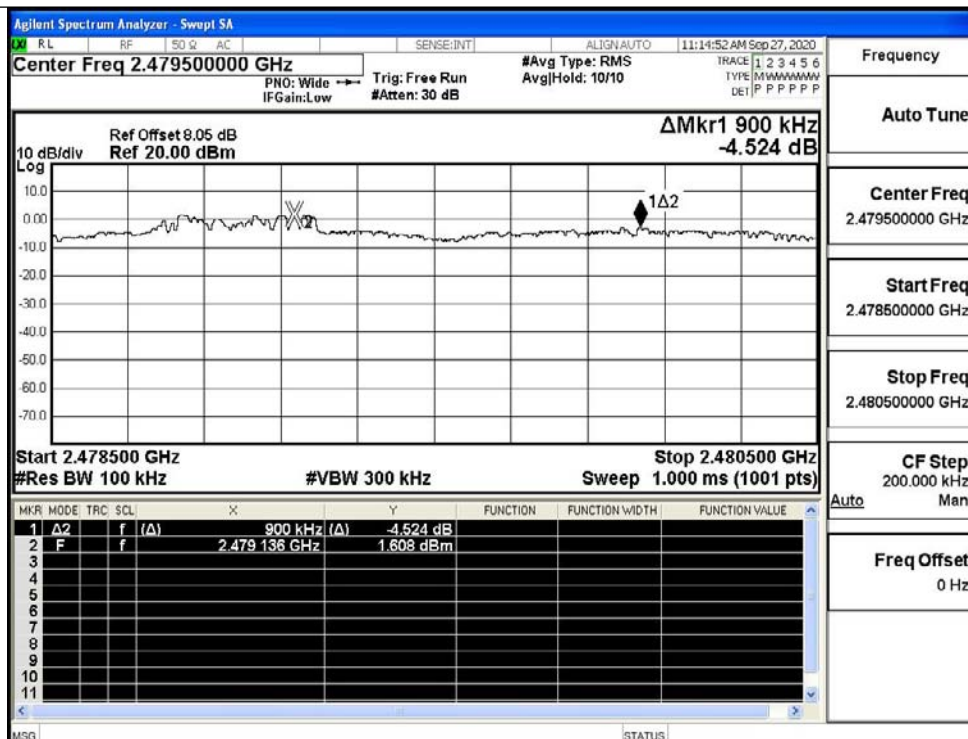
GFSK/MCH



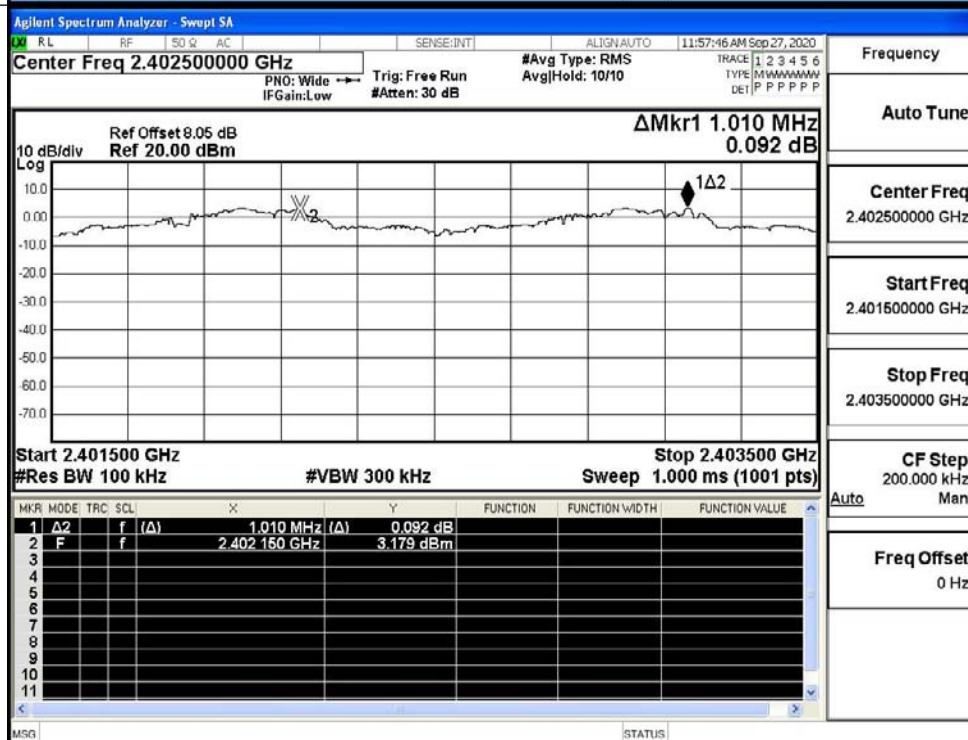
GFSK/HCH



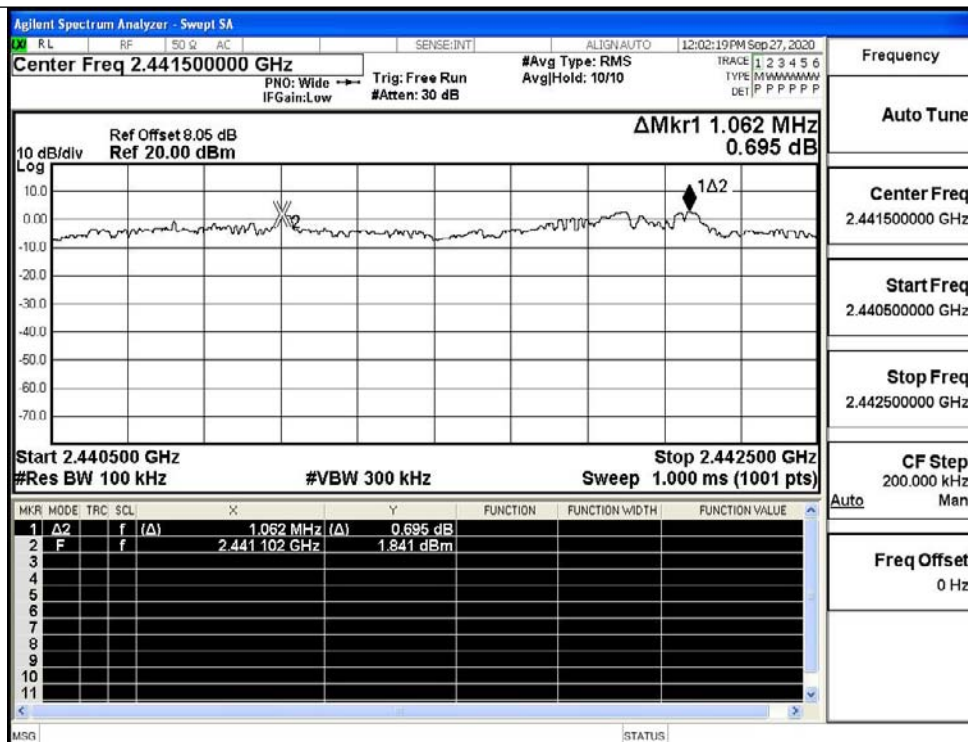
$\pi/4$ DQPSK/LCH $\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

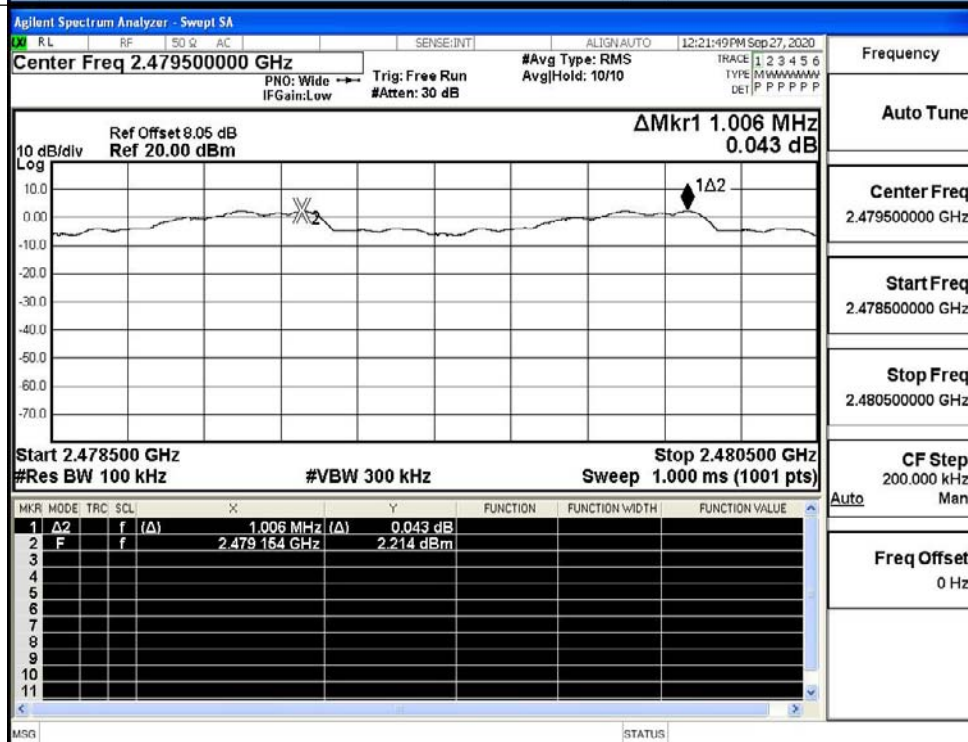
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

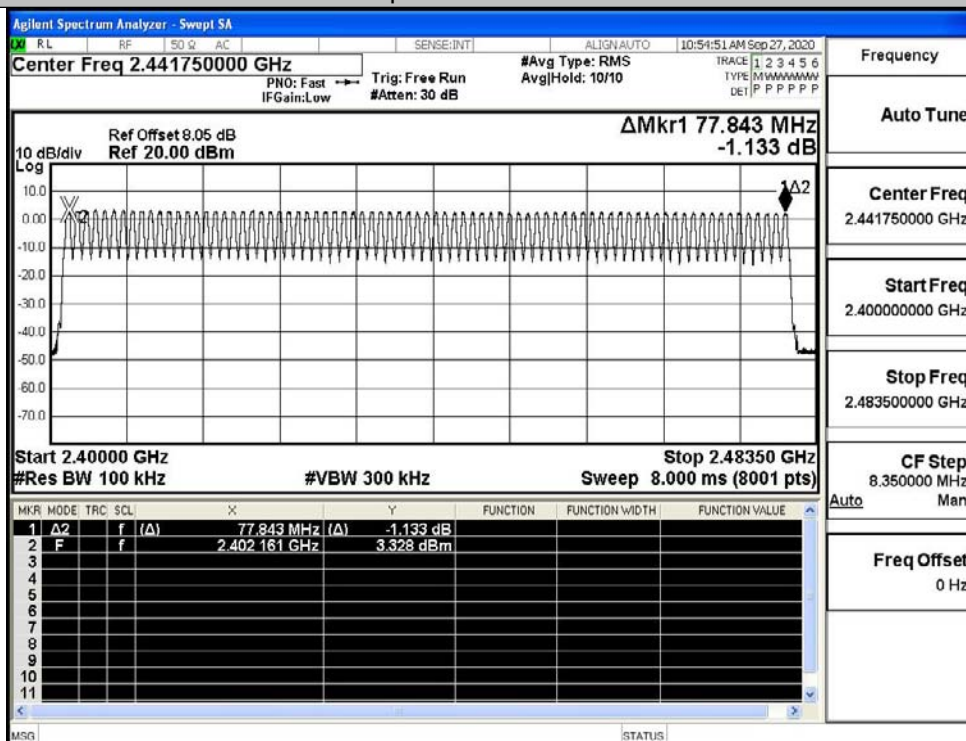
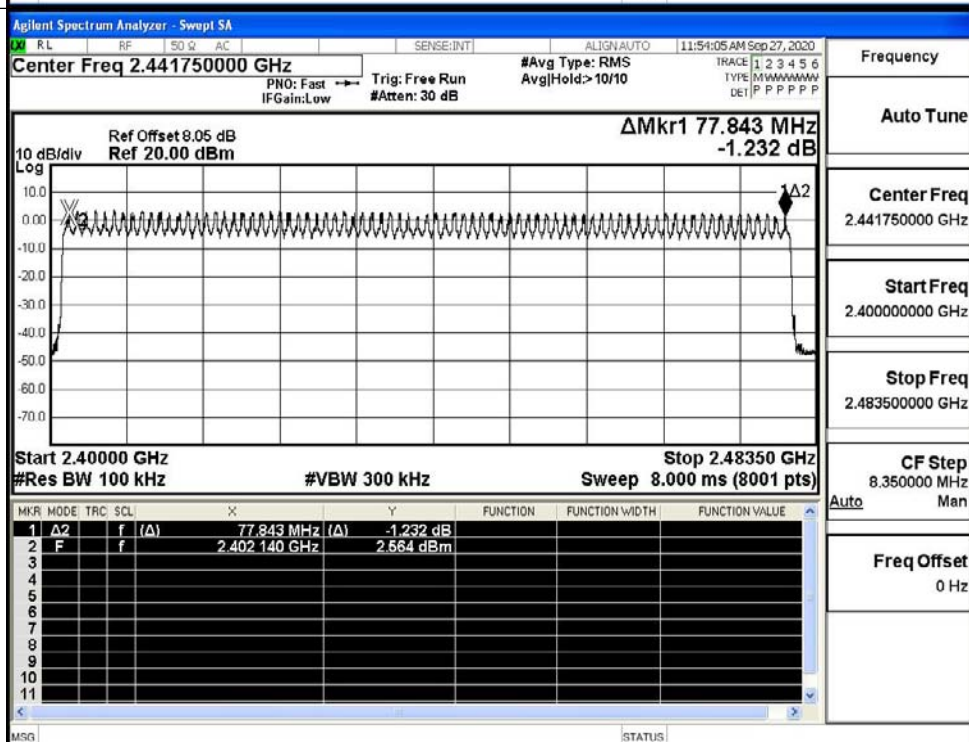


A.4 Hopping Channel Number

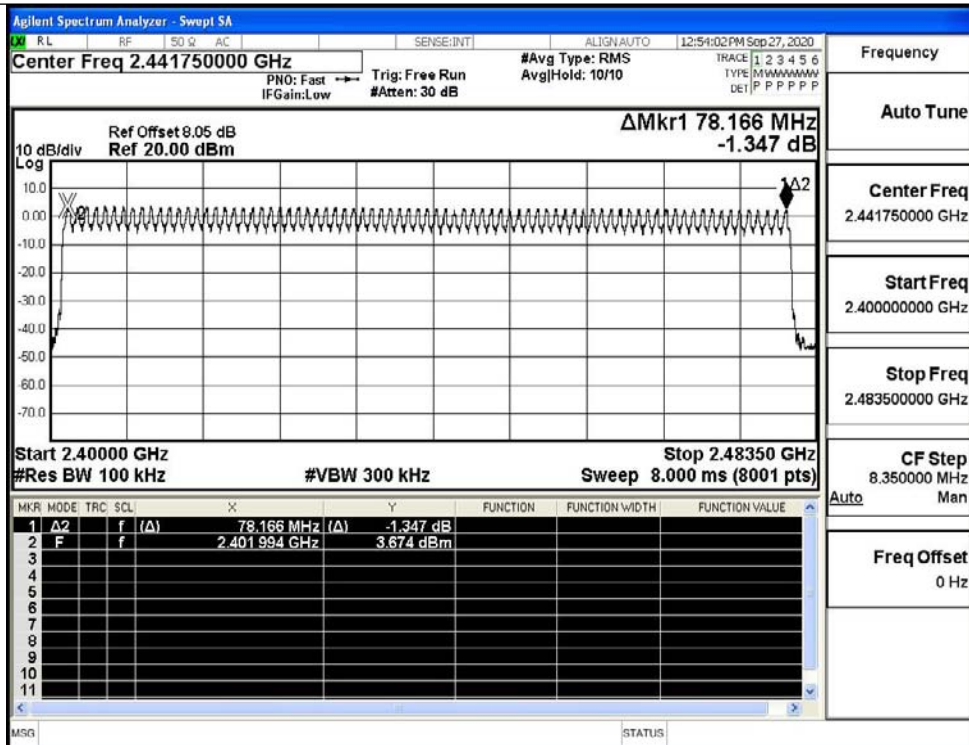
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

Test Graphs

GFSK/Hop

 $\pi/4$ DQPSK/Hop

8DPSK/Hop

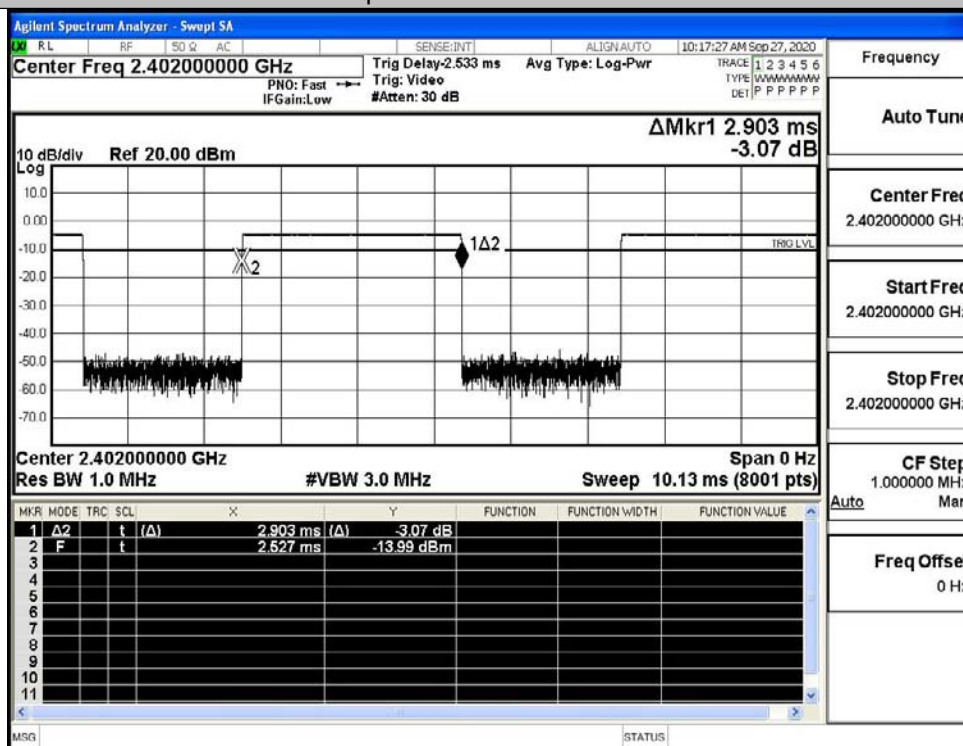


A.5 Dwell Time

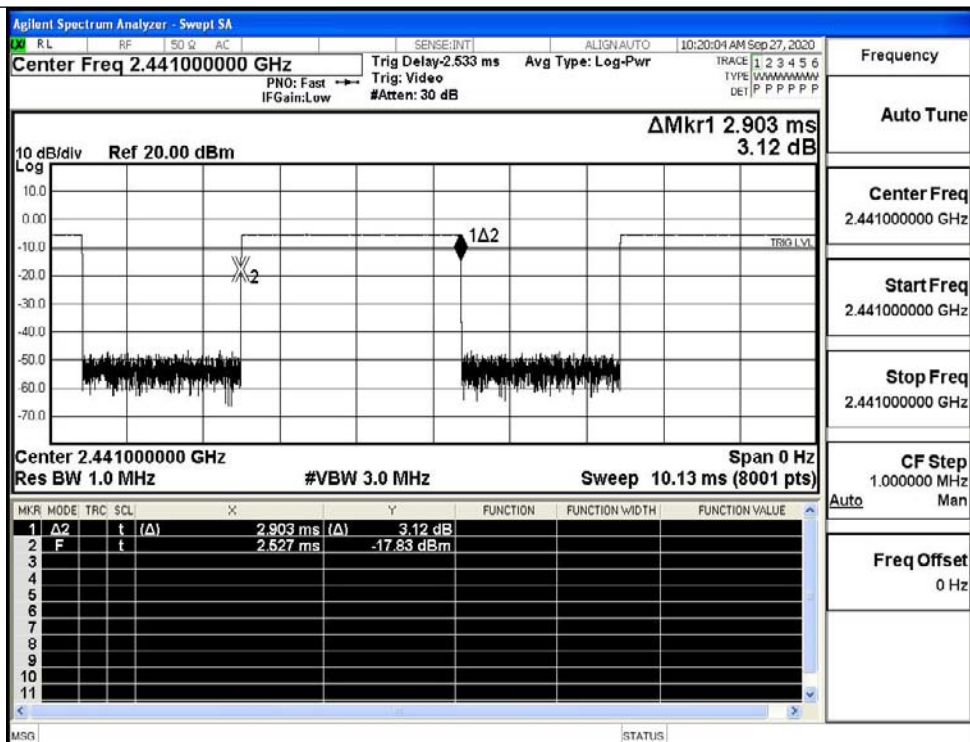
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.9	106.7	0.309	0.4	PASS
	DH5	MCH	2.9	106.7	0.309	0.4	PASS
	DH5	HCH	2.9	106.7	0.309	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.9	106.7	0.31	0.4	PASS
	2DH5	MCH	2.9	106.7	0.31	0.4	PASS
	2DH5	HCH	2.9	106.7	0.31	0.4	PASS
8DPSK	3DH5	LCH	2.9	106.7	0.31	0.4	PASS
	3DH5	MCH	2.9	106.7	0.31	0.4	PASS
	3DH5	HCH	2.9	106.7	0.31	0.4	PASS

Test Graphs

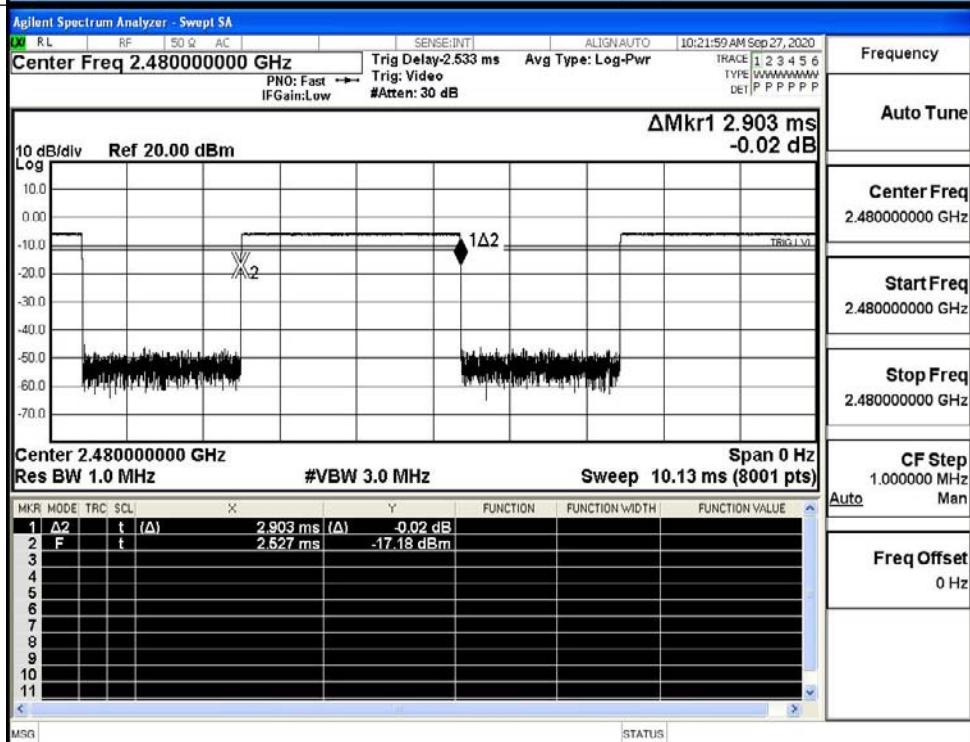
GFSK_DH5/LCH



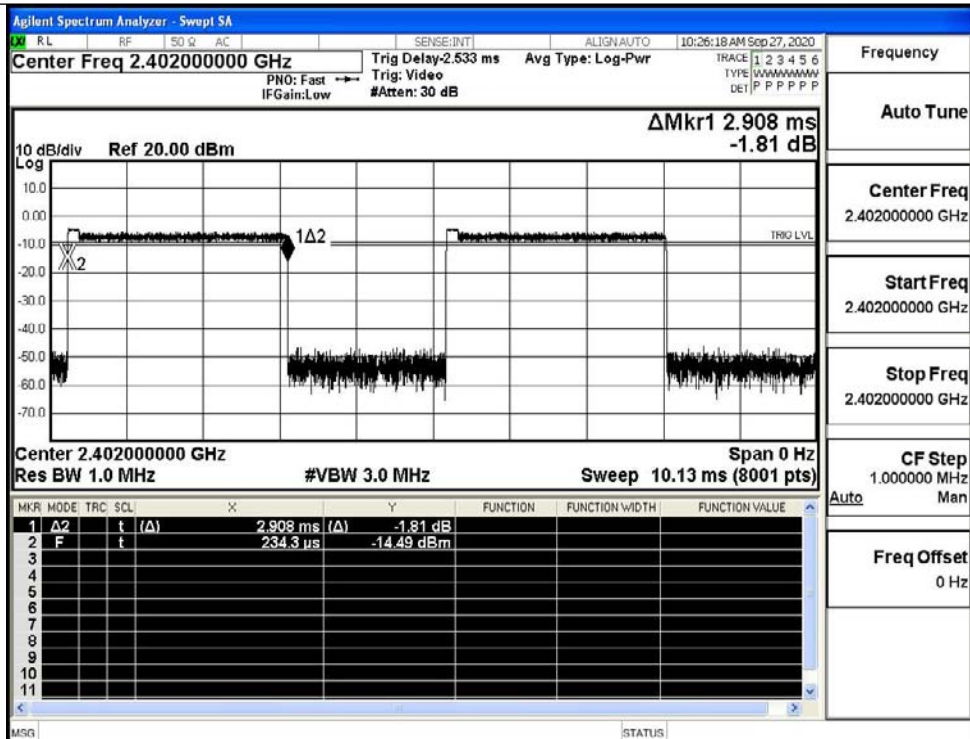
GFSK_DH5/MCH



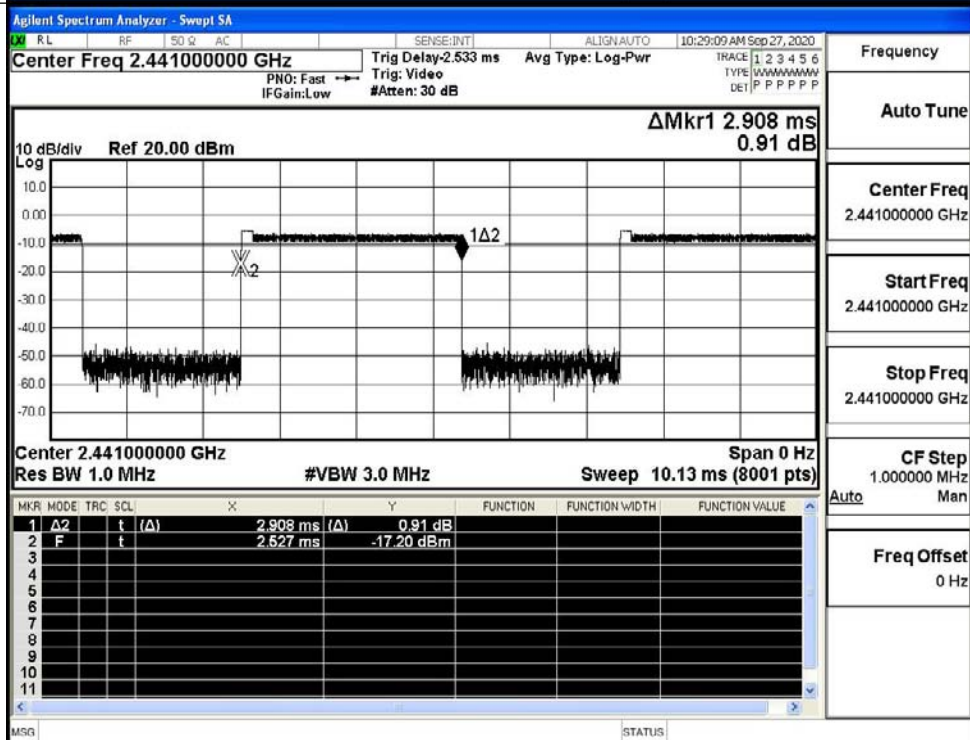
GFSK_DH5/HCH



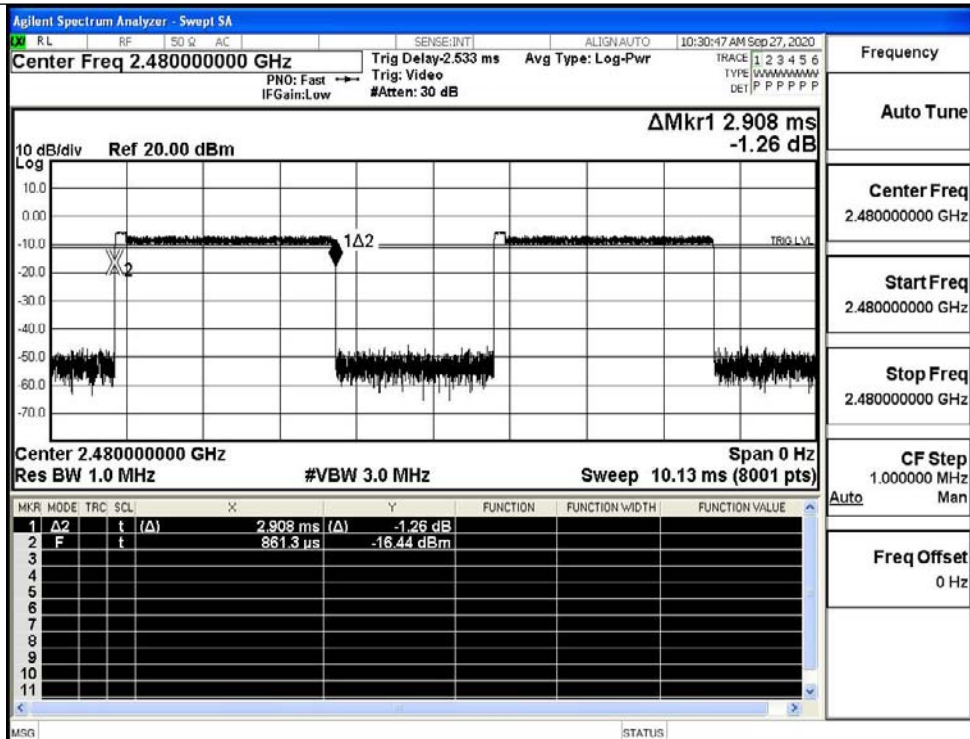
$\pi/4$ DQPSK
_2DH5/LCH



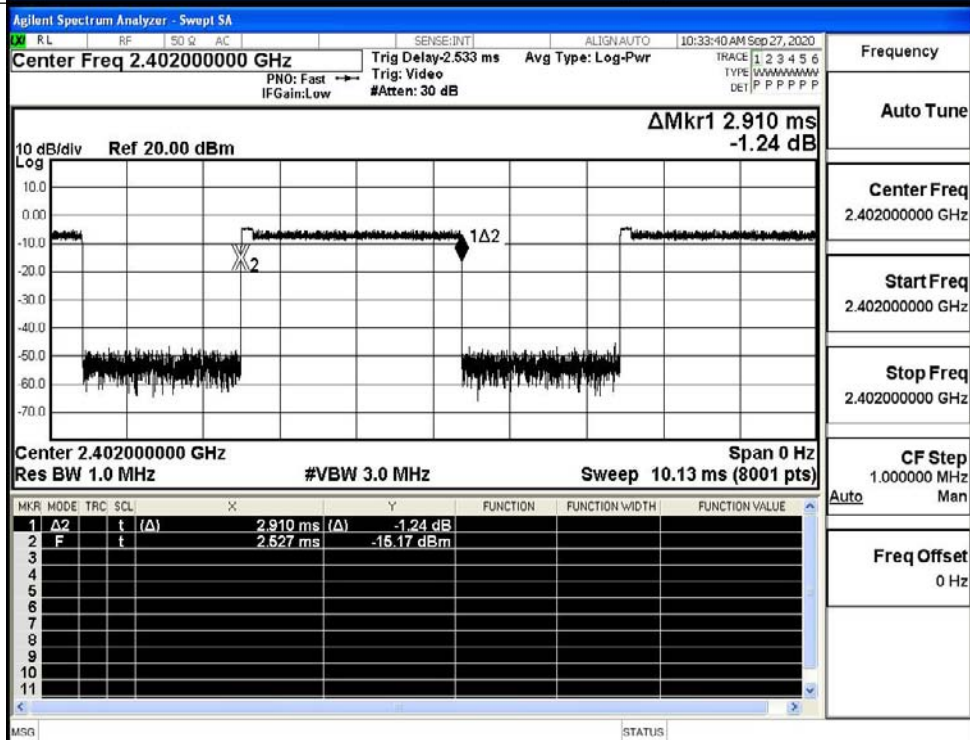
$\pi/4$ DQPSK
_2DH5/MCH



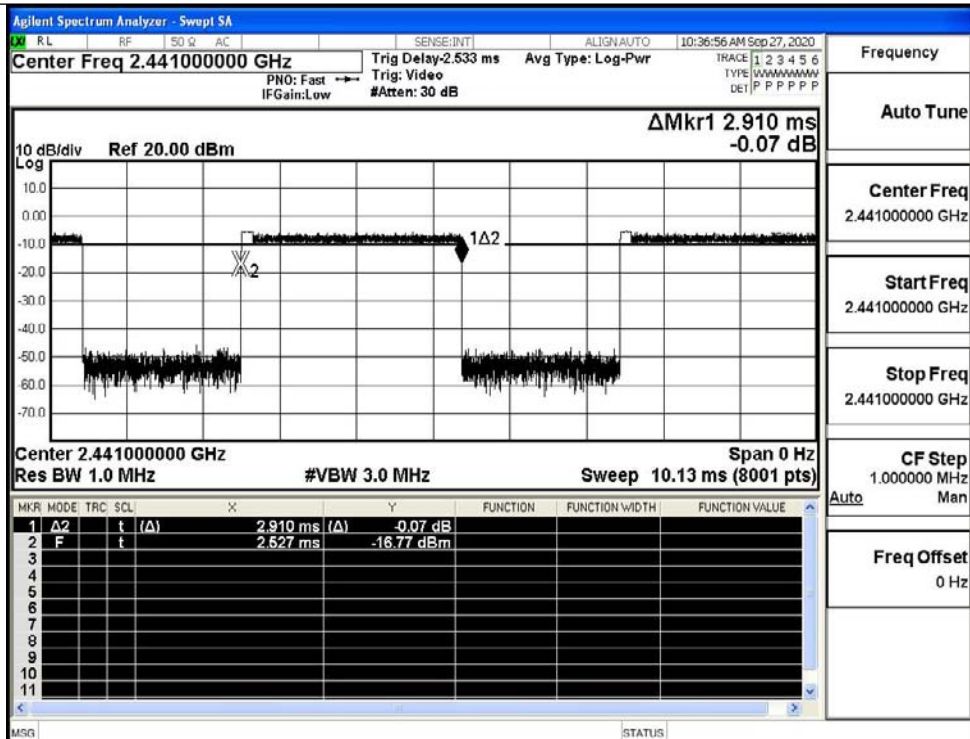
$\pi/4$ DQPSK
_2DH5/HCH



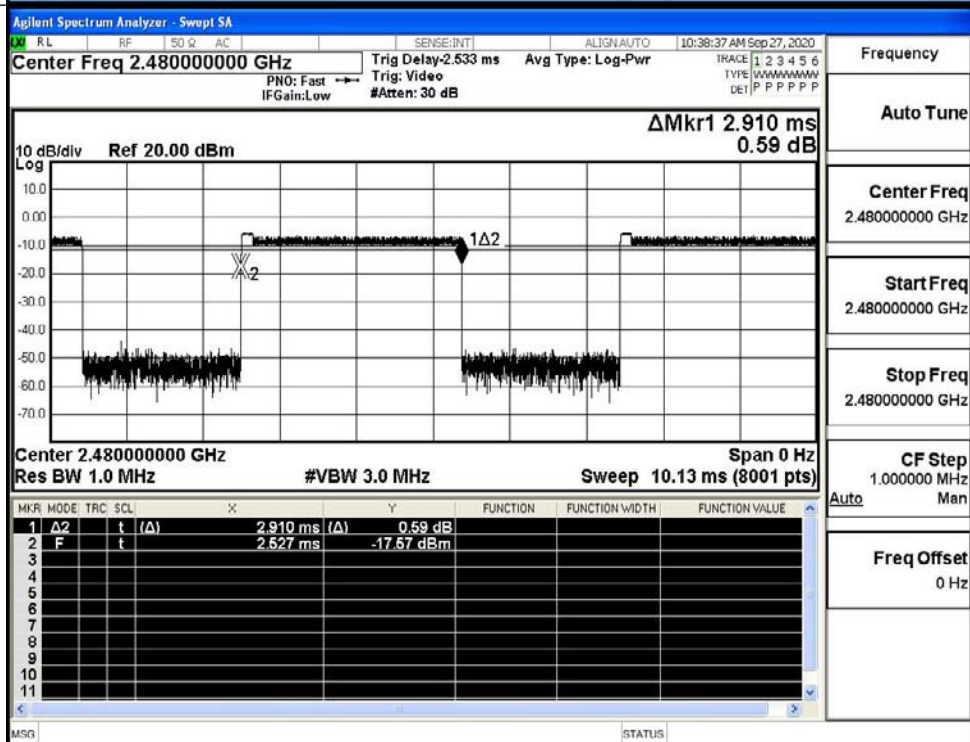
8DPSK _3DH5/LCH



8DPSK_3DH5/MCH



8DPSK_3DH5/HCH

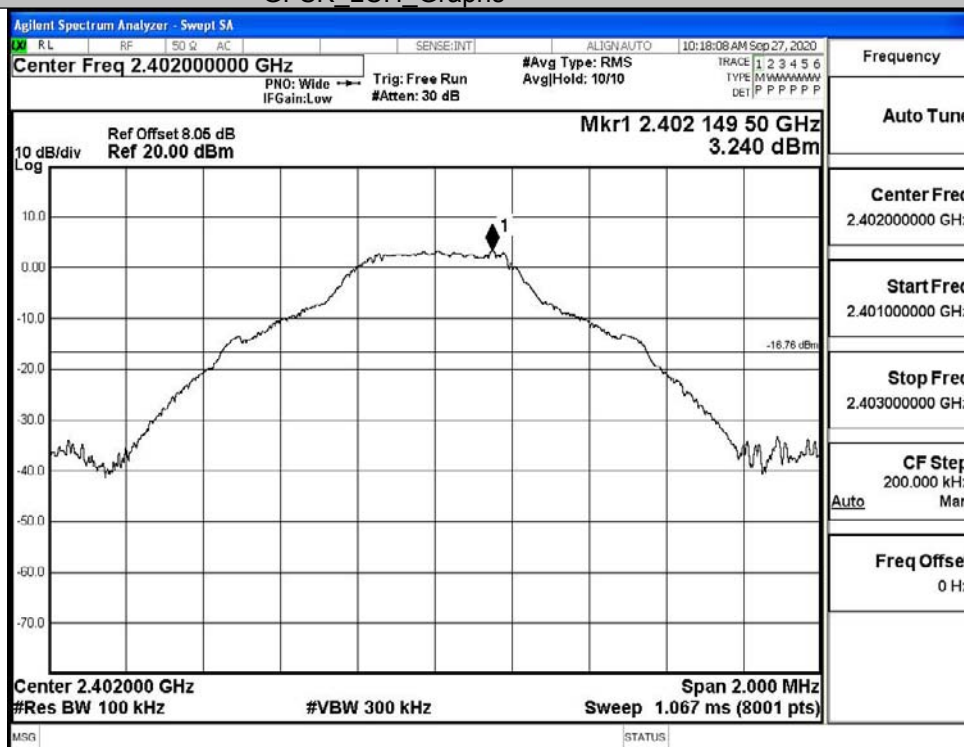


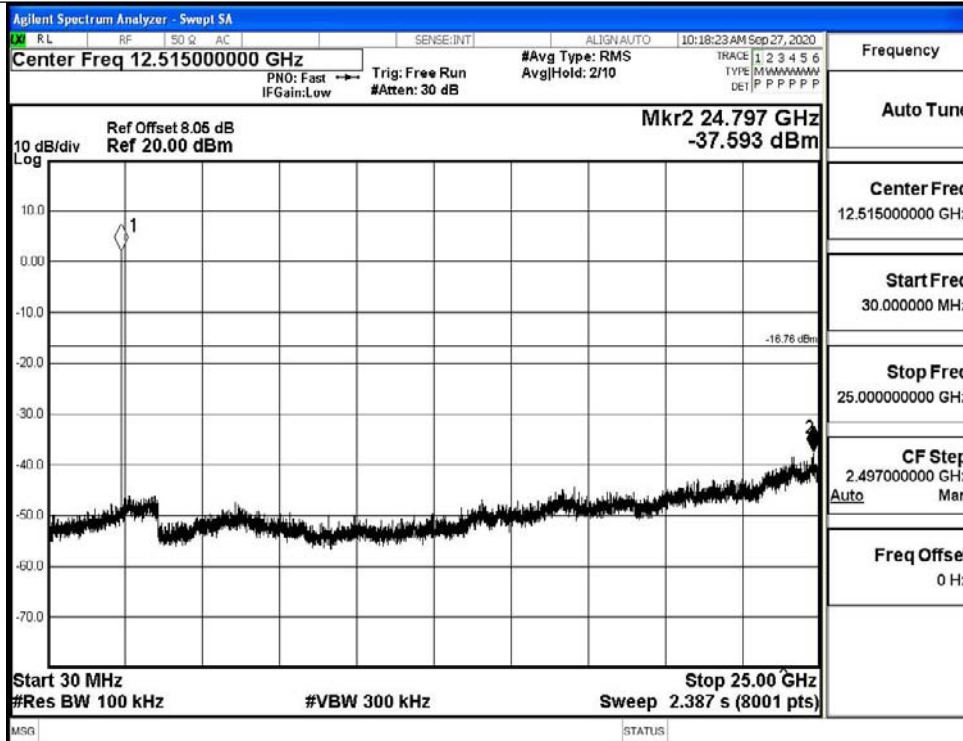
A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	3.24	-37.593	-16.760	PASS
	MCH	2.564	-38.064	-17.436	PASS
	HCH	2.063	-37.632	-17.937	PASS
$\pi/4$ DQPSK	LCH	3.285	-37.871	-16.715	PASS
	MCH	2.507	-37.693	-17.493	PASS
	HCH	2.016	-38.110	-17.984	PASS
8DPSK	LCH	3.391	-38.428	-16.609	PASS
	MCH	2.713	-37.777	-17.287	PASS
	HCH	2.182	-37.168	-17.818	PASS

GFSK LCH Graphs

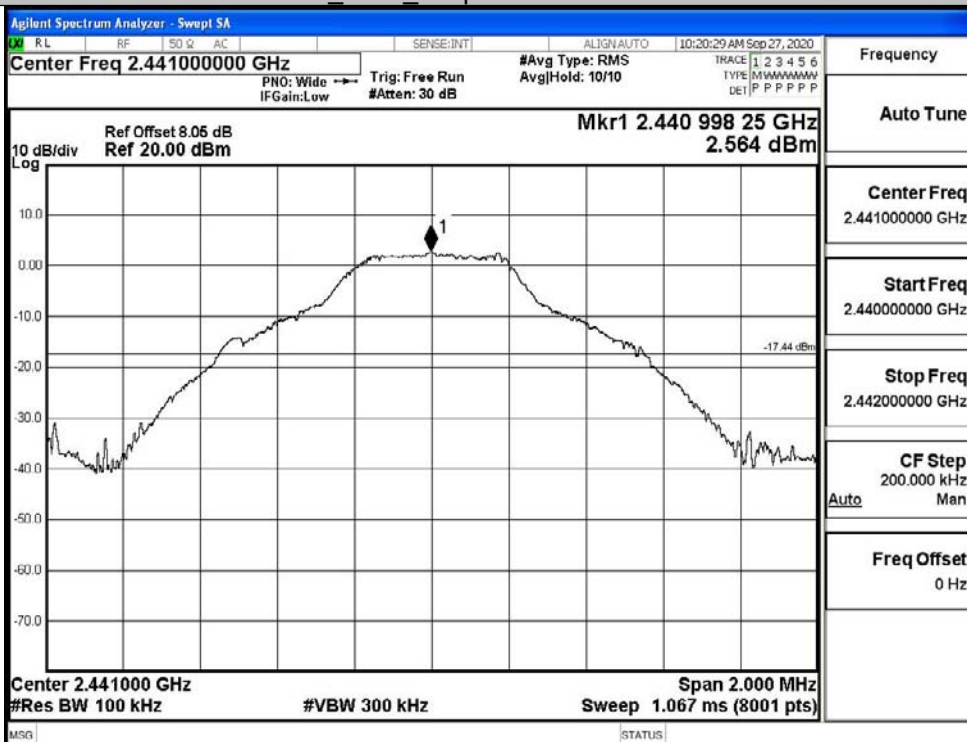
Pref



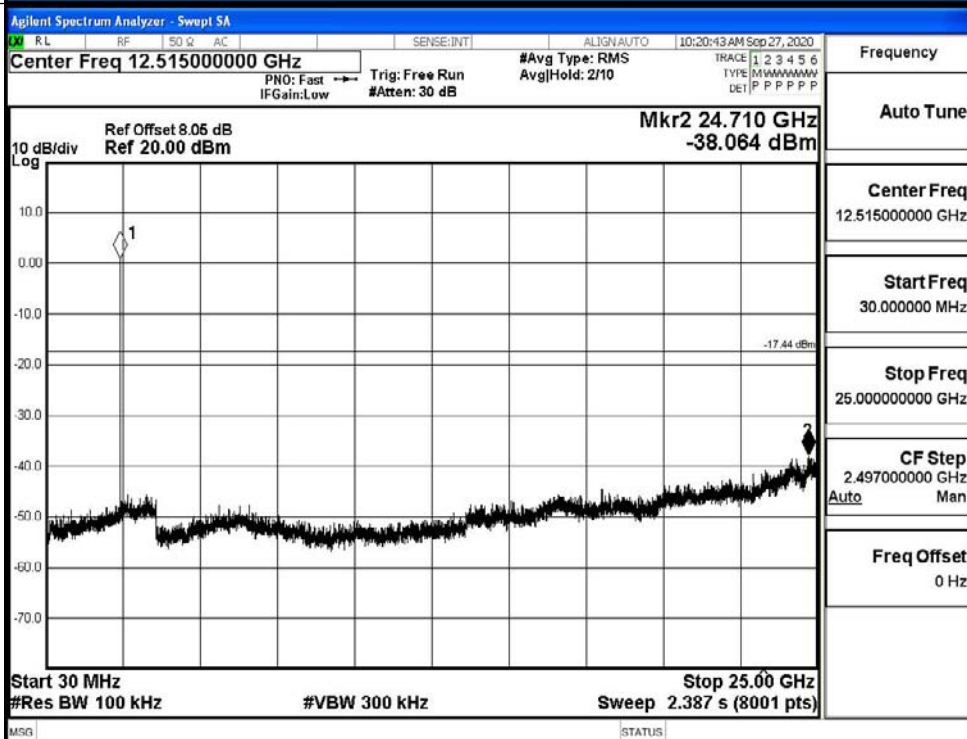
P_{uw}

GFSK_MCH_Graphs

Pref

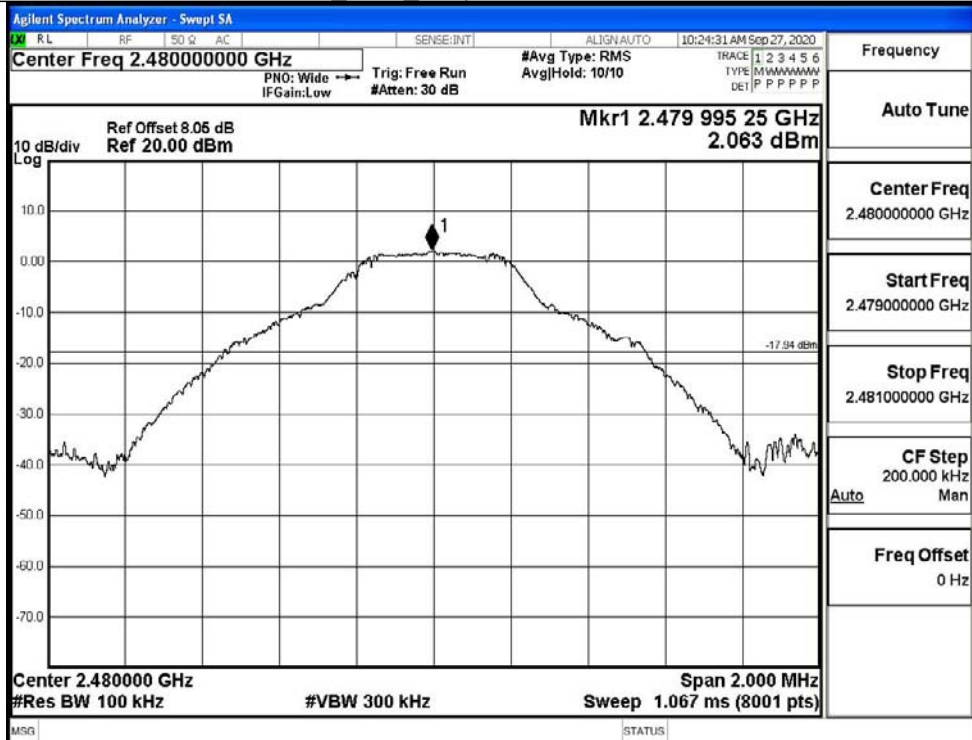


Puw



GFSK_HCH_Graphs

Pref

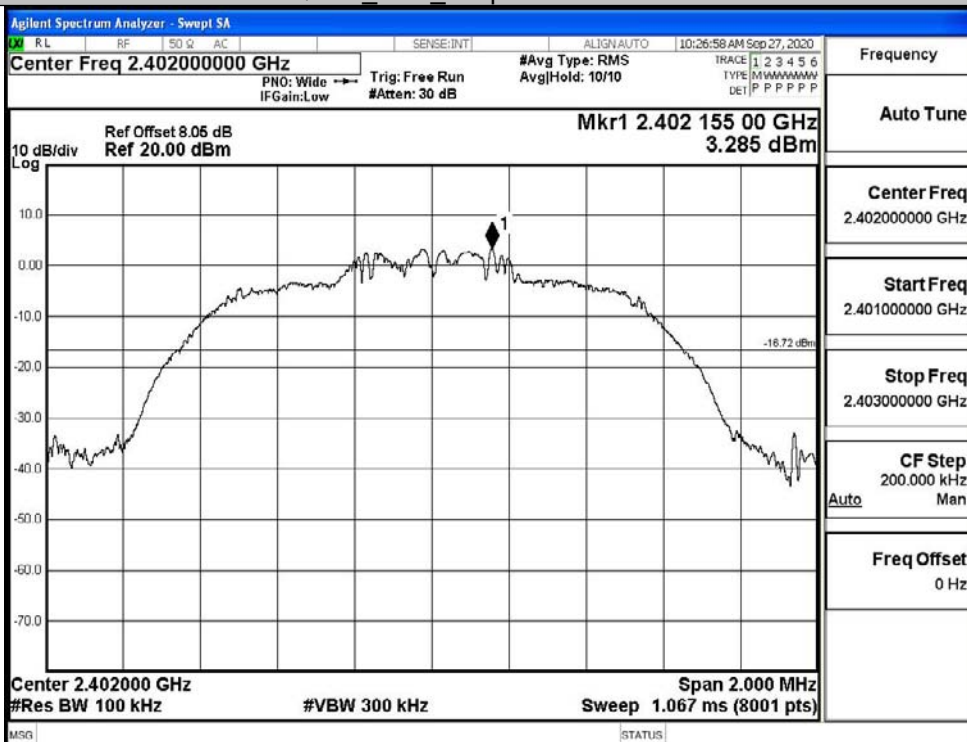


Puw

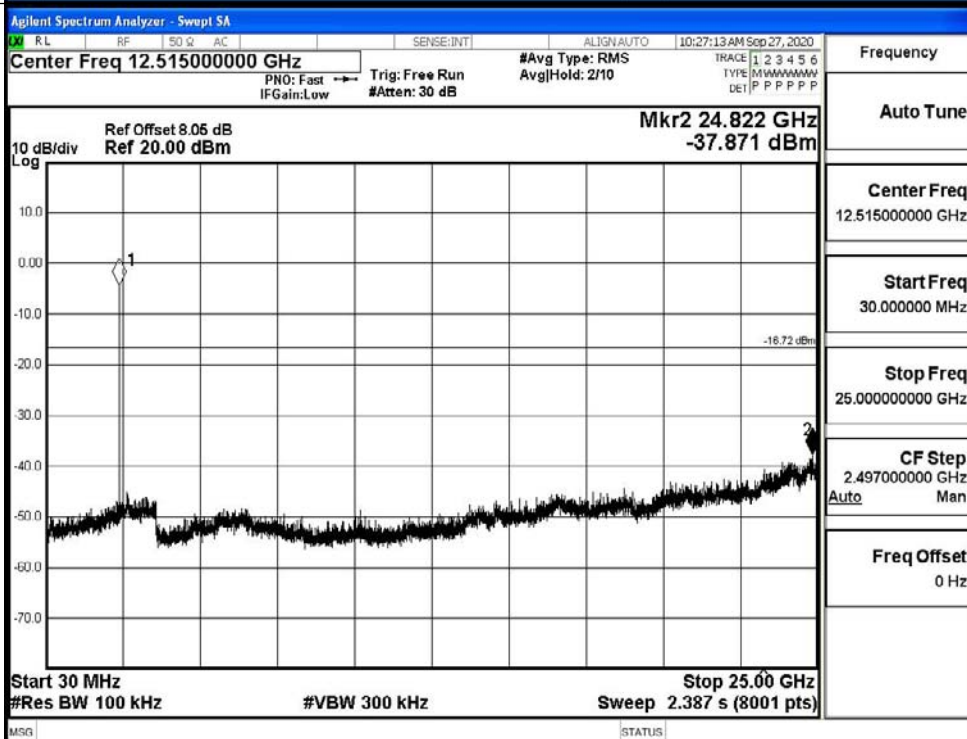


$\pi/4$ DQPSK_LCH_Graphs

Pref

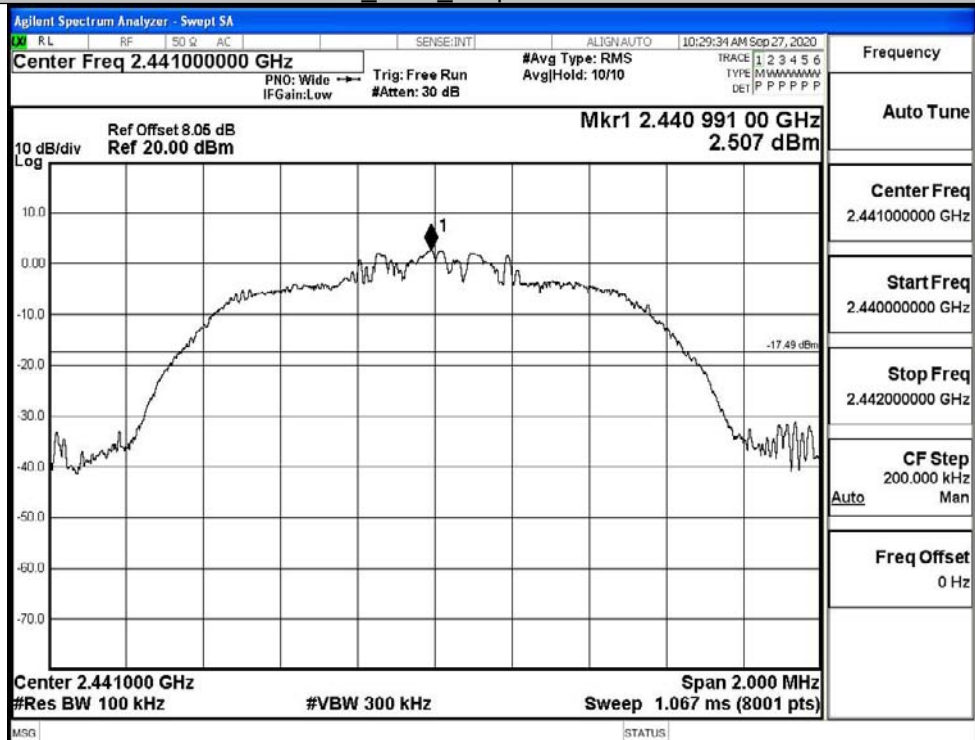


Puw

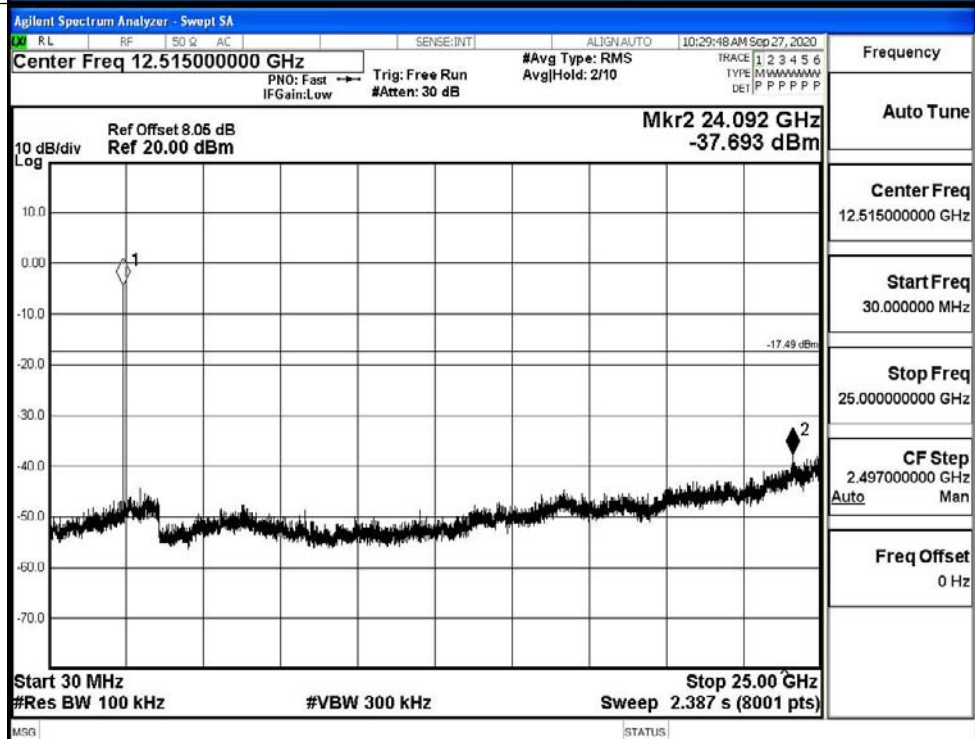


π /4DQPSK_MCH_Graphs

Pref

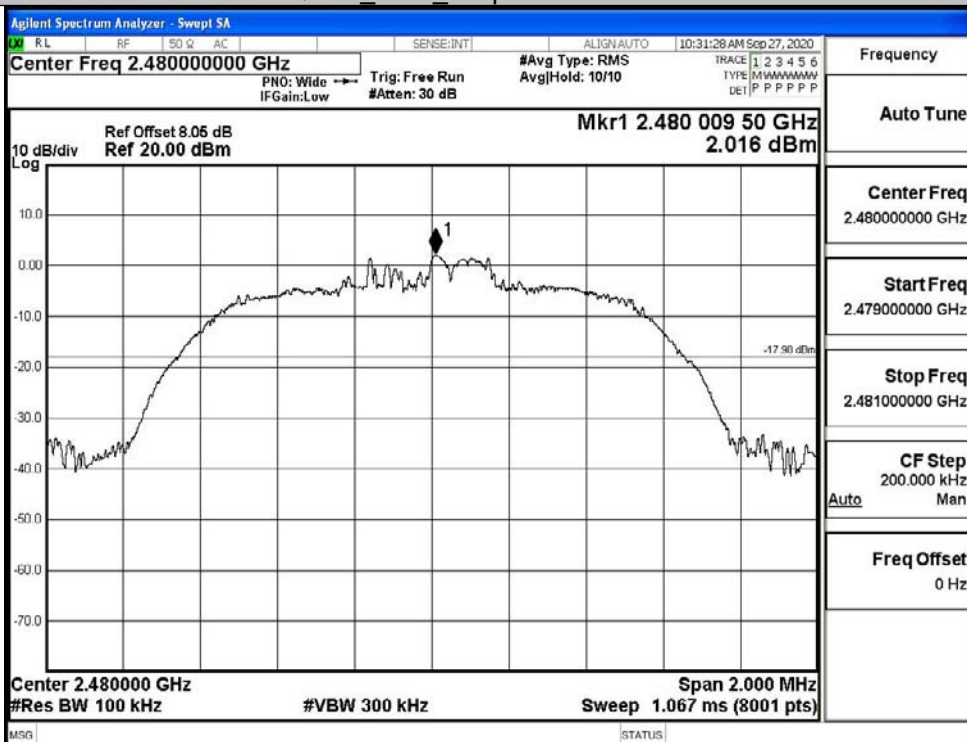


Puw

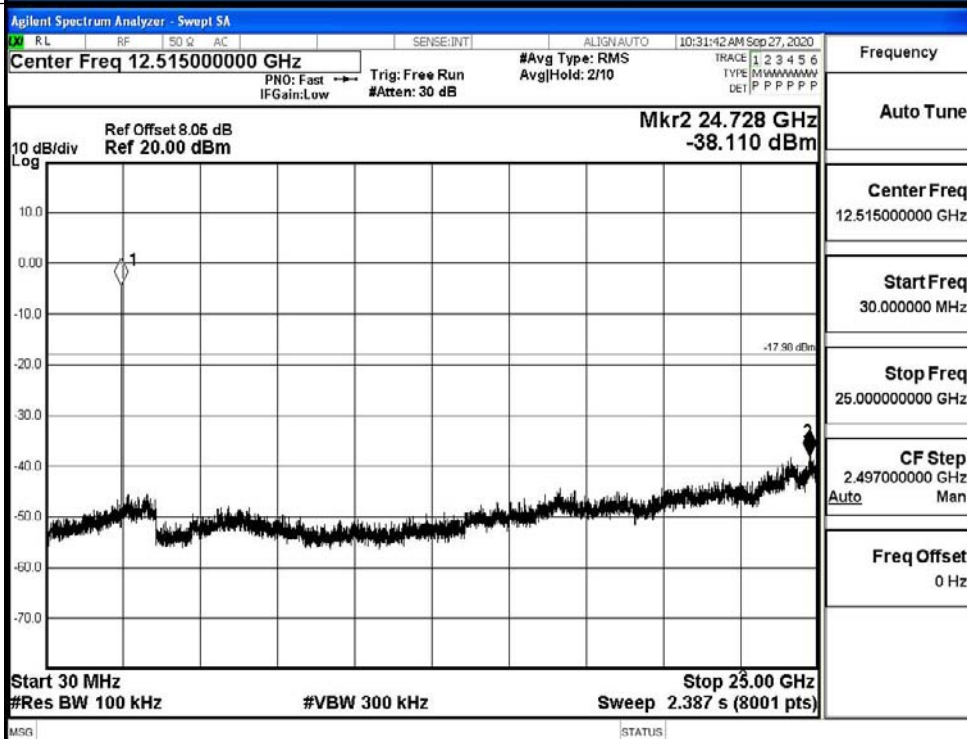


$\pi/4$ DQPSK_HCH_Graphs

Pref

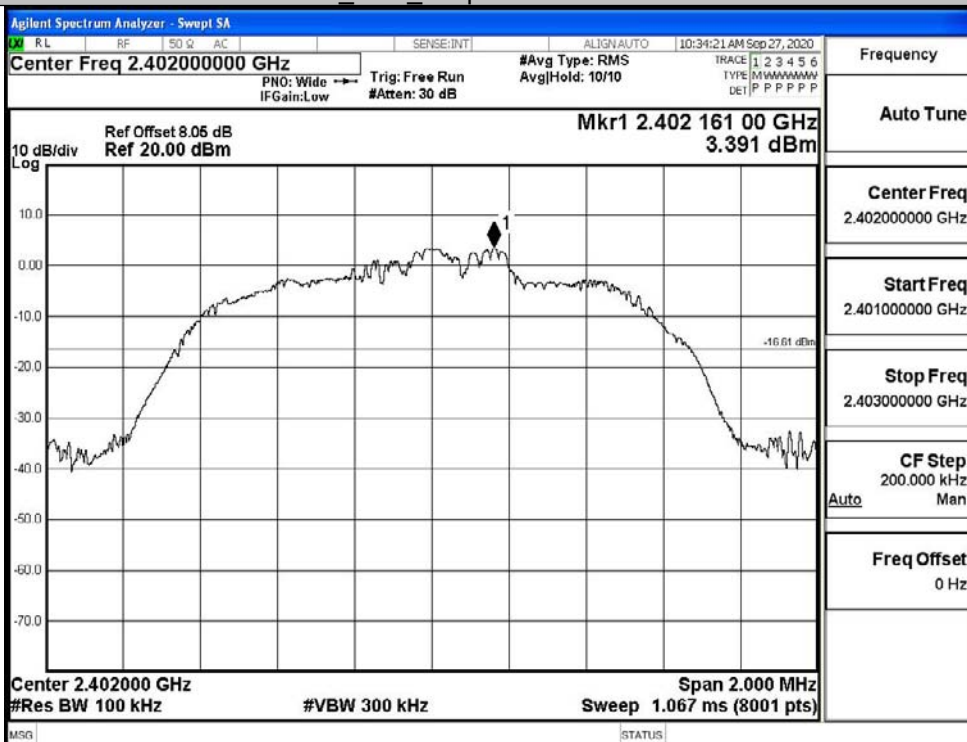


Puw

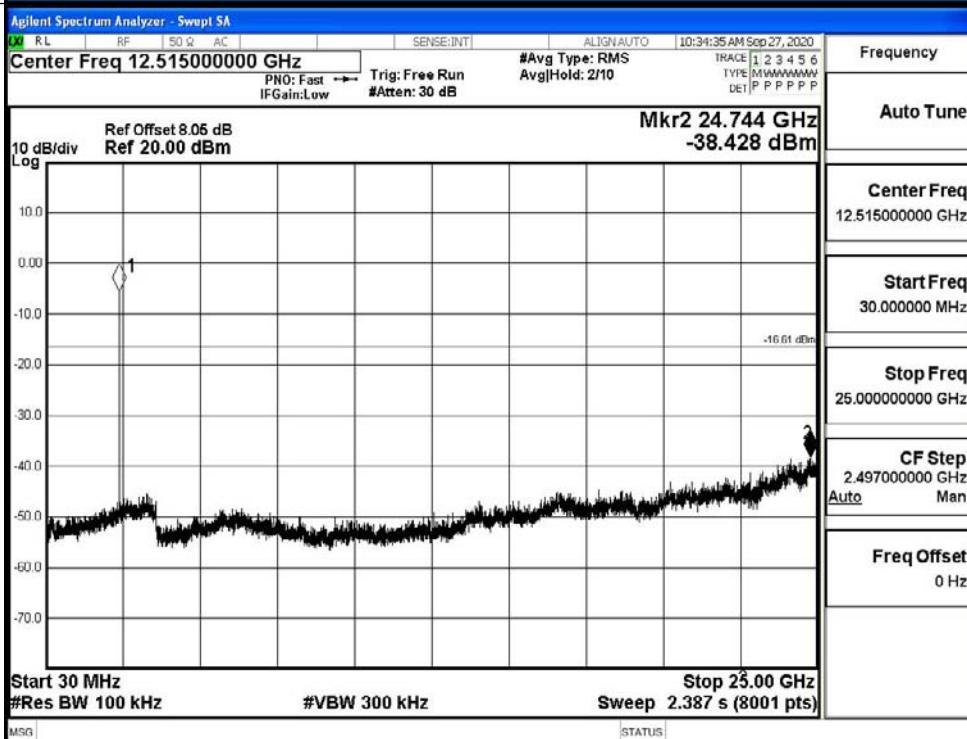


8DPSK_LCH_Graphs

Pref

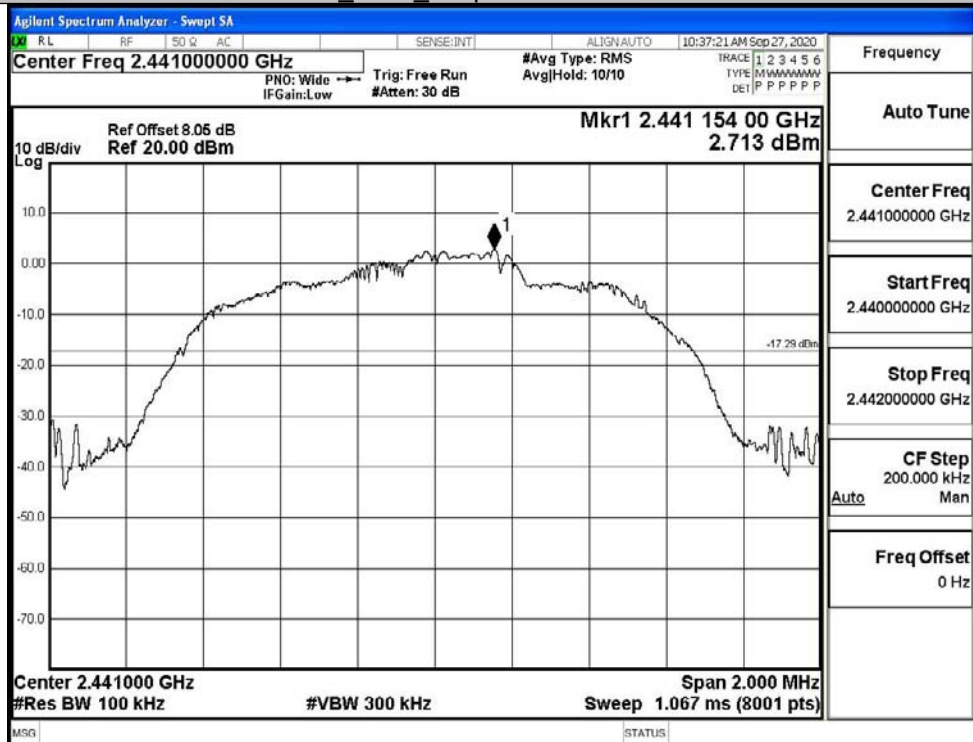


Puw

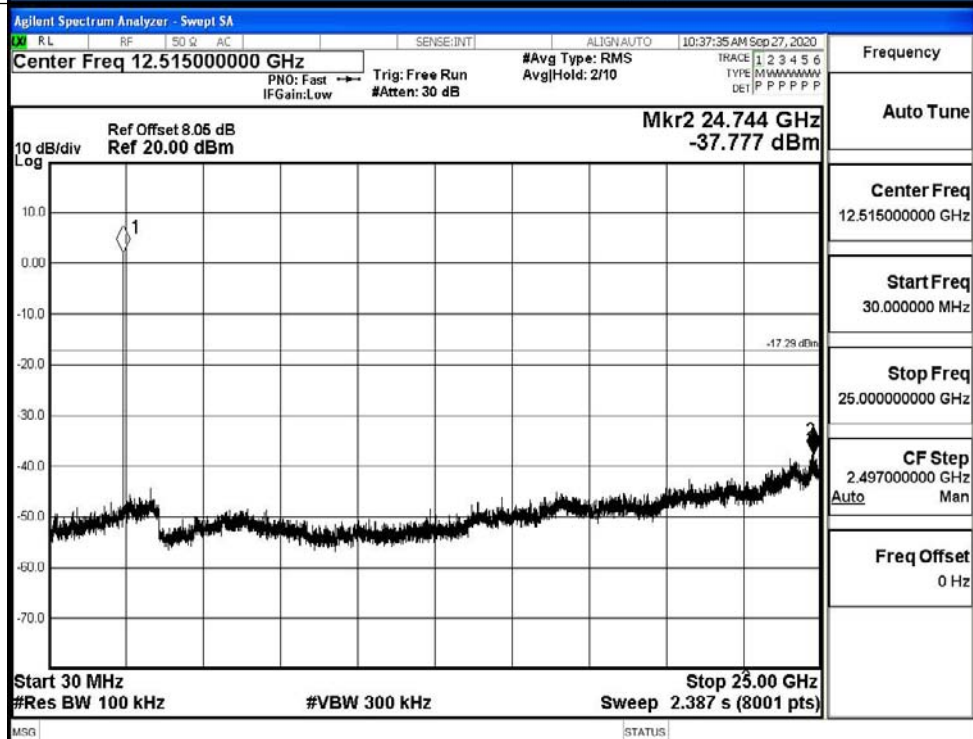


8DPSK_MCH_Graphs

Pref

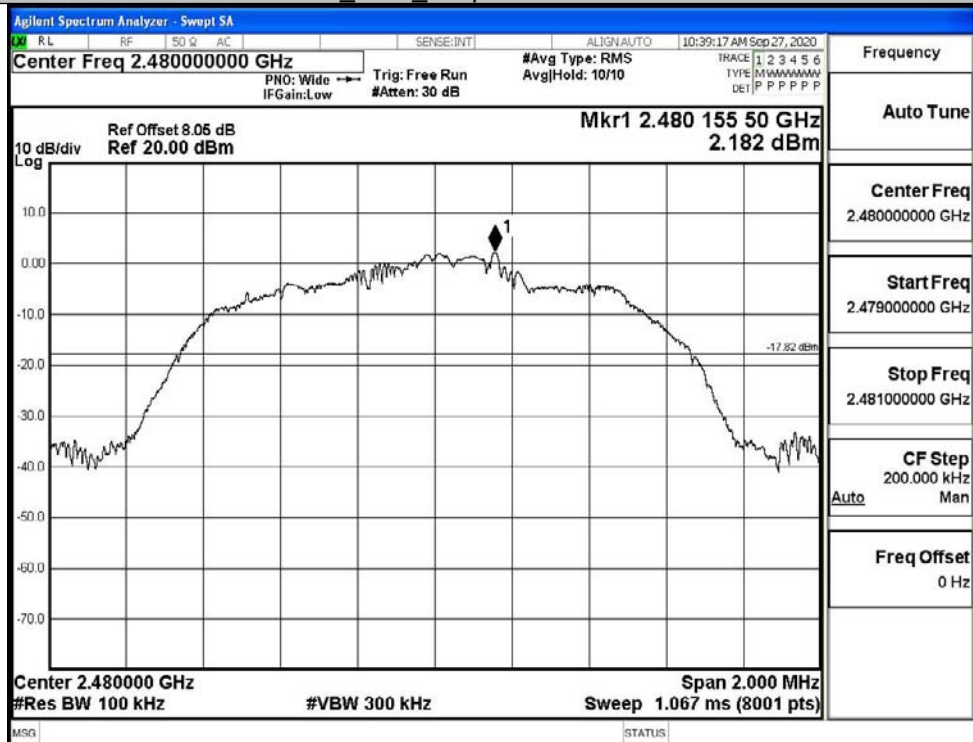


Puw



8DPSK_HCH_Graphs

Pref



Puw

